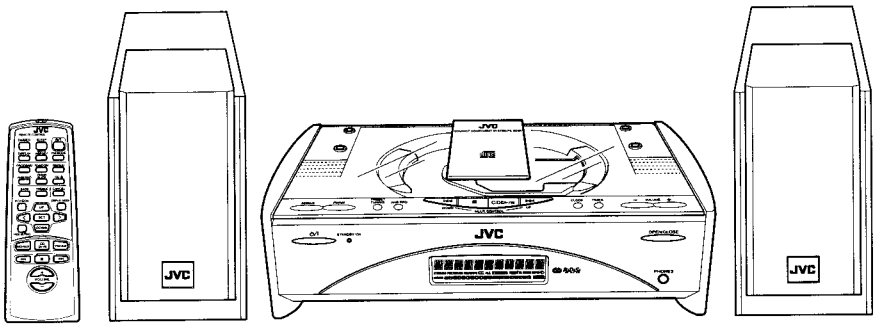
JVC

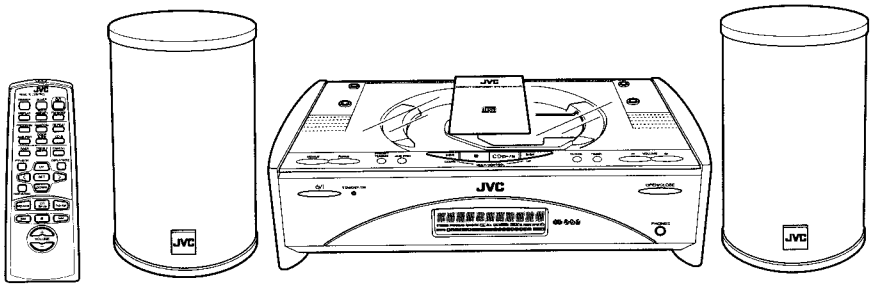
SERVICE MANUAL

COMPACT COMPONENT SYSTEM

FS-SD5R
FS-SD7R / FS-SD9R



FS-SD5R



FS-SD7R, FS-SD9R

Area Suffix	
FS-SD5R/FS-SD7R	
B	U.K.
E	Continental Europe
EN	Northern Europe
FS-SD9R	
B	U.K.
E	Continental Europe
EN	Northern Europe
EV	Eastern Europe
EE	Russian Federation
UB	Hong Kong

COMPACT disc DIGITAL AUDIO

RIDISI

These models are different only speaker systems.
FS-SD7R and FS-SD9R are different only speaker cabinet.

Contents **These models not have adjustment.**

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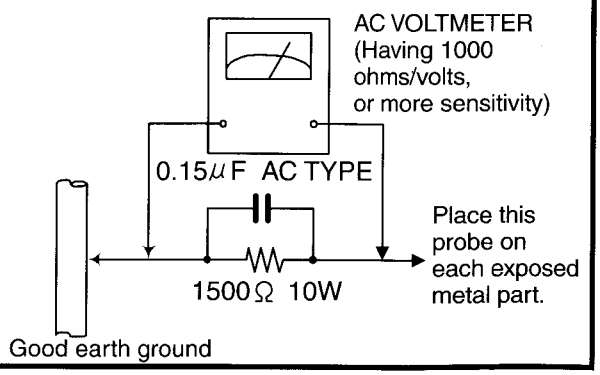
No.20829
Apr. 2000

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet , particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to eachexposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. voltage measured Any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

Preventing static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.1. Grounding to prevent damage by static electricity

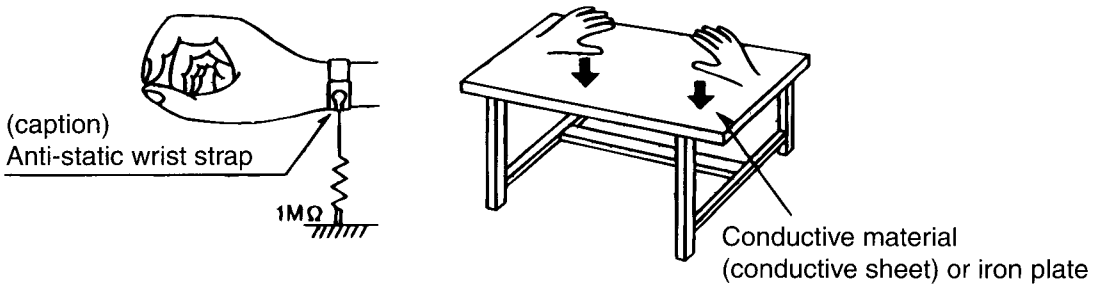
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as DVD players. Be careful to use proper grounding in the area where repairs are being performed.

1.1.1. Ground the workbench

1. Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

1.1.2. Ground yourself

1. Use an anti-static wrist strap to release any static electricity built up in your body.



1.1.3. Handling the optical pickup

1. In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)

2. Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

1.2. Handling the traverse unit (optical pickup)

1. Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.

2. Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.

3. Handle the flexible cable carefully as it may break when subjected to strong force.

4. It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it

Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches whichprevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

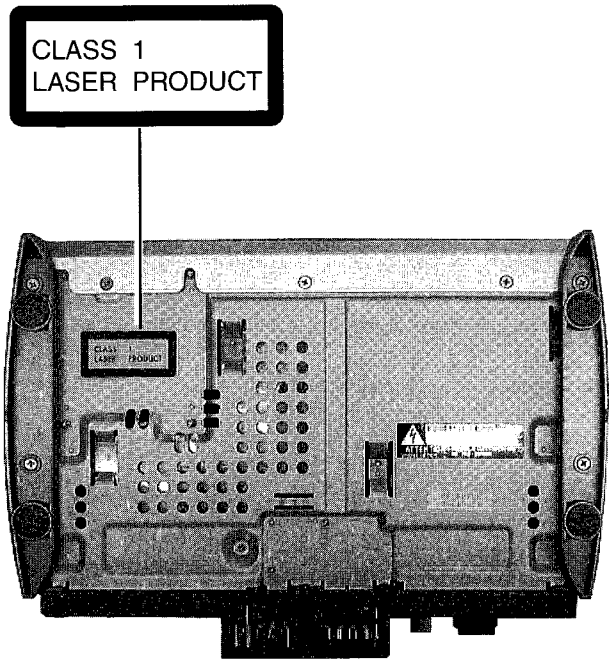
VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen.

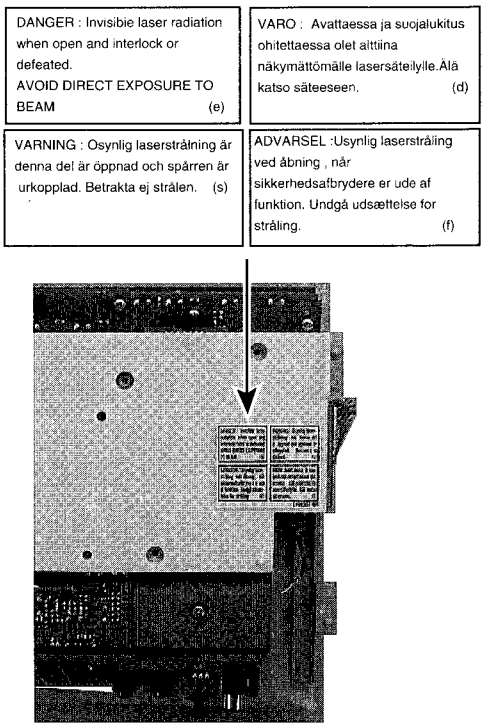
ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstråling ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL



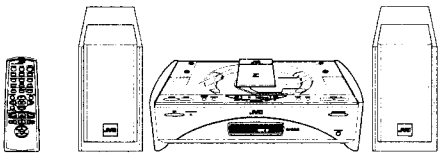

DANGER : Invisible laser radiation when open and interlock or defeated.
AVOID DIRECT EXPOSURE TO BEAM (e)
VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen. (d)
VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen. (s)
ADVARSEL :Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (f)

Instructions

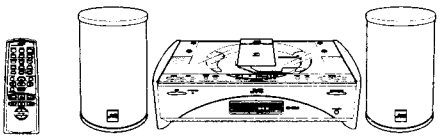
JVC

COMPACT COMPONENT SYSTEM

FS-SD5R/FS-SD7R/FS-SD9R



FS-SD5R



FS-SD7R, FS-SD9R

COMPACT DISC DIGITAL AUDIO RDS

INSTRUCTIONS

For Customer Use:
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No.

Serial No.

LVT0418-002A
[B/UB]

SAFETY INSTRUCTIONS
"SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT"

This equipment has been disigned and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

****

Do read the operating instructions before you attempt to use the equipment.

Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

Do consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

Do be careful with glass panels or doors on equipment.

****

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way–switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode.
Switch off using the switch on the equipment and make sure that your family know how to do this.

Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

— NEVER let anyone, especially children, push anything into holes, slots or any other opening in the case - this could result in a fatal electrical shock.

— NEVER guess or take chances with electrical equipment of any kind
— it is better to be safe than sorry!

Warnings, Cautions and Others

IMPORTANT for the U.K.
DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nontheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT:

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue :Neutral

Brown :Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

Caution — ⏻/I switch!
Disconnect the mains plug to shut the power off completely.
The ⏻/I switch in any position does not disconnect the mains line. The power can be remote controlled.

IMPORTANT FOR LASER PRODUCTS

REPRODUCTION OF LABELS

1 CLASSIFICATION LABEL, PLACED ON EXTERIOR SURFACE

CLASS 1
LASER PRODUCT

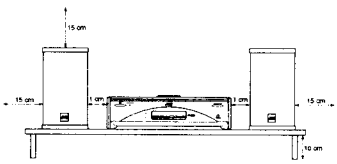
2 WARNING LABEL, PLACED INSIDE THE UNIT

1 CLASS 1 LASER PRODUCT
2 **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3 **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

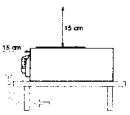
CAUTION
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

Caution: Proper Ventilation
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:
3 Front: No obstructions and open spacing.
4 Sides/ Top/ Back: No obstructions should be placed in the areas shown by the dimensions below.
5 Bottom: Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

Front view



Side view



CAUTION
■ **About the Internal Cooling Fan**
This unit includes an internal cooling fan, so as to allow for high-power operation within a small space.
This fan comes on when the sound level is set high, and may also come on even at low sound levels if the internal temperature rises. To ensure effective fan operation, please leave at least 15cm clearance between the rear of the unit and the wall, and at least 1cm clearance on each side of the unit.

Introduction

Thank you for purchasing the JVC Compact Component System.
We hope it will be a valued addition to your home, giving you years of enjoyment.
Be sure to read this instruction manual carefully before operating your new stereo system.
In it you will find all the information you need to set up and use the system.
If you have a query that is not answered by the manual, please contact your dealer.

Features

Here are some of the things that make your System both powerful and simple to use.

- The controls and operations have been redesigned to make them very easy to use, freeing you to just enjoy the music.
  - With JVC's **COMPU PLAY** you can turn on the System and automatically start the Radio or CD Player with a single touch.
- The System incorporates Active Hyper Bass PRO circuitry to faithfully reproduce low frequency sounds.
- A 45-station preset capability (30 FM and 15 AM (MW/LW)) in addition to auto-seek and manual tuning.
- CD options that include repeat, random and program play.
- Timer functions; Daily Timer and Sleep Timer.
- The System is compatible with RDS (Radio Data System) broadcasting.
  - The EON data enables you to standby for desired information.
  - The PTY Search function searches for programmes in the category you wish.

In addition, Radio Text can be displayed using data sent by station.

- You can connect various external units, such as an MD recorder.

How This Manual Is Organized

- Basic information that is the same for many different functions - e.g. setting the volume - is given in the section "Basic Operations", and not repeated under each function.
- The names of buttons/controls and display messages are written in all capital letters: e.g. FM/AM, "NO DISC".
- System functions are written with an initial capital letter only: e.g. Normal Play.

Use the table of contents to look up specific information you require.
We have enjoyed making this manual for you, and hope it serves you in enjoying the many features built into your System.

WARNINGS

- **DO NOT PUT ANYTHING ON THE TOP COVER. IF THE SYSTEM IS OPERATED WITH SOMETHING PUT ON THE TOP COVER, IT WILL BE DAMAGED WHEN YOU TRY TO OPEN THE TOP COVER.**
- **NEVER REMOVE THE TOP COVER FROM THE UNIT. SERIOUS INJURY MAY OCCUR IF THE SYSTEM IS OPERATED WITHOUT THE TOP COVER.**

IMPORTANT CAUTIONS

1 Installation of the System

- Select a place which is level, dry and neither too hot nor too cold. (Between 5°C and 35°C or 41°F and 95°F)
- Leave sufficient distance between the System and a TV.
- Do not use the System in a place subject to vibrations.

2 Power cord

- Do not handle the power cord with wet hands!
- Some power is always consumed as long as the power cord is connected to the wall outlet.
- When unplugging the System from the wall outlet, always pull the plug, not the power cord.

3 Malfunctions, etc.

- There are no user serviceable parts inside. In case of system failure, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the System.
- Do not insert your hand between the Top Cover and the main body when the Top Cover is being closed.

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Getting Started

Accessories

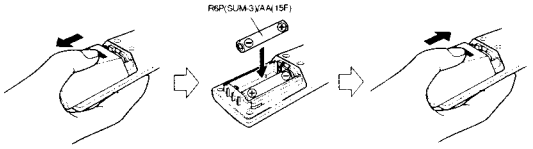
Make sure that you have all of the following items, which are supplied with the System.

Power Cord (1)
AM Loop Antenna (1)
Remote Control (1)
Batteries (2)
FM Wire Antenna (1)
Speaker Cords (2)
Spacers (6) (only for FS-SD7R / SD9R)

If any of these items are missing, contact your dealer immediately.

How To Put Batteries In the Remote Control

Match the polarity (+ and –) on the batteries with the + and – markings in the battery compartment.

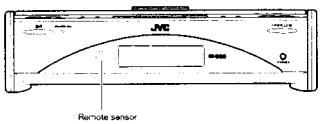


⚠ CAUTION:
- **Handle batteries properly.**

■ To avoid battery leakage or explosion:
- Remove batteries when the Remote Control will not be used for a long time.
- When you need to replace the batteries, replace both batteries at the same time with new ones.
- Do not use an old battery with a new one.
- Do not use different types of batteries together.

Using the Remote Control

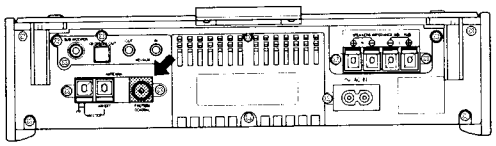
The Remote Control makes it easy to use many of the functions of the System from a distance of up to 7m (23 feet) away. You need to point the Remote Control at the remote sensor on the System's front panel.



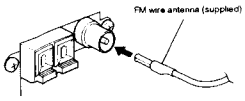
⚠ CAUTION:
- **Make all connections before plugging the System into an AC power outlet.**

Connecting the FM Antenna

Rear Panel of the Unit



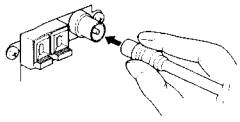
Using the Supplied Wire Antenna



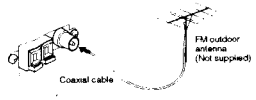
Note
- *Before attaching a 75 ohm coaxial lead (the kind with a round wire going to an outdoor antenna), disconnect the supplied FM Wire Antenna.*

Using the Coaxial Type Connector (Not Supplied)

A 75-ohm antenna with coaxial type connector (IEC or DIN45 325) should be connected to the FM 75-ohm COAXIAL terminal.

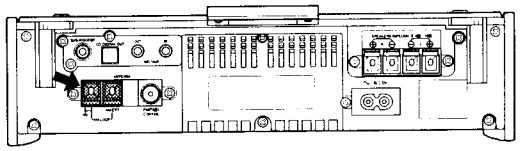


If reception is poor, connect the outdoor antenna.

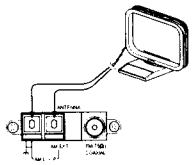


Connecting the AM (MW/LW) Antenna

Rear Panel of the Unit



Attach the AM loop to its base by snapping the tabs on the loop into the slot in the base.



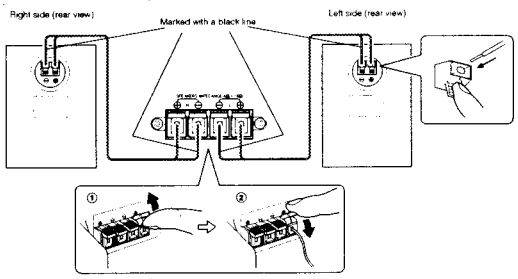
Turn the loop until you have the best reception.

⚠ CAUTION:
- **To avoid noise, keep antennas away from the System, the connecting cord and the AC power cord.**

⚠ CAUTION:
- **Make all connections before plugging the System into an AC power outlet.**

Connecting the Speakers

1. Open each of the terminals to connect the speaker wire leads.
2. Connect the speaker cords between the Speaker terminals of the Unit and the terminals of the Speakers.
   Connect the cords with a black line to the (–) terminals and cords without a black line to the (+) terminals.
3. Close each of the terminals to securely connect the cords.



Note

- *Since both speakers are the same, you can put either one to the right or left side*

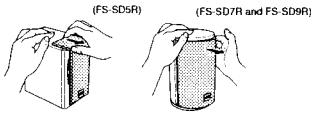
⚠ CAUTION:
- **A TV may display irregular colors if located near the speakers. If this happens, set the speakers away from the TV.**

Removing the speaker grilles

The speaker grilles can be moved.

When removing:

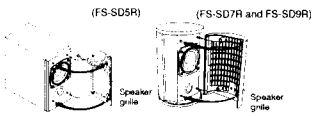
1. Pull the top forwards you with your fingers.
2. Also pull the bottom towards you.



Note

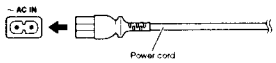
- *When removing the speaker grille from the FS-SD9R's speaker, be careful not to damage the cabinet.*

When attaching the speaker grille:



Connecting the AC Power Cord

Firmly insert the supplied AC power cord into the AC inlet on the back of the Unit.



⚠ CAUTIONS:
- **ONLY USE THE JVC POWER CORD PROVIDED WITH THIS SYSTEM TO AVOID MALFUNCTION OR DAMAGE TO THE SYSTEM.**
- **BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE SYSTEM IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.**

Now you can plug the AC power cord into the wall outlet, and your System is at your command!

COMPU Play

JVC's COMPU PLAY feature lets you control the most frequently used System functions with a single touch.
With One Touch Operation you can play a CD, turn on the radio, or listen to an external equipment with a single press of the play button for that function. One Touch Operation turns the power on for you, then starts the function you have specified. At the same time, the Top Cover moves backward to allow the Unit's top button operation. If the System is not ready (no CD in place), the System still powers on so you can insert a CD.
How One Touch Operation works in each case is explained in the section dealing with that function.
The COMPU PLAY buttons are:

On the Remote Control

CD ▷/II button
FM/AM button
MD/AUX button

Automatic Power On

The System automatically turns on with the following operation.
- When you press the CD ≙ button on the Remote Control or the OPEN/CLOSE button on the Unit, the System automatically turns on and the Top Cover opens to allow CD setting. However, this operation does not change the function to CD.
  When you press the ⏻/I button to turn off the System, the Top Cover will be automatically closed if it is opened.
- When you press the DOOR SLIDE button on the Remote Control, the System automatically turns on and the Top Cover moves backwards to allow button operation.
  When you press the ⏻/I button to turn off the System, the Top Cover will automatically moves back to the original position, if it is in the backward position.

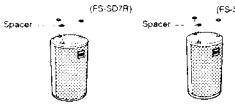
Attaching the Spacers

⚠ CAUTION:

Note for Installation
- Take special care to select an appropriate installation place where an earthquake or shock does not cause the speaker to collapse or drop on the floor.

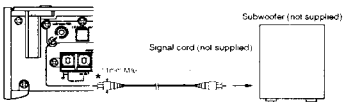
FS-SD7R / SD9R

Attach the supplied spacers to the bottom of the speaker to protect the cabinet, prevent slipping, and absorb the cabinet vibration. Peel off the backing from a spacer and attach it.



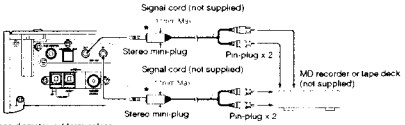
Connecting a Subwoofer

Connect a signal cord (not supplied) between the System's SUBWOOFER terminal and the input terminal of an external subwoofer.



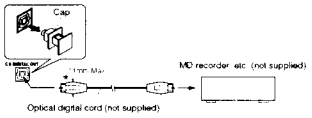
Connecting External Equipment

Connect signal cords (not supplied) between the System's MD/AUX-OUT/IN terminals and the output/input terminals of the external MD recorder, tape deck, etc.
You can then listen to the external source through the System or record the System's CD player or tuner to the external unit.


Signal cord (not supplied)
Stereo mini-plug
Pin-plug x 2
Signal cord (not supplied)
MD recorder or tape deck (not supplied)
Stereo mini-plug
Pin-plug x 2
* Use the plug whose diameter is 11mm or less

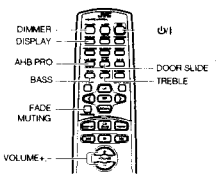
Connecting an MD Recorder, etc (Digital Output)

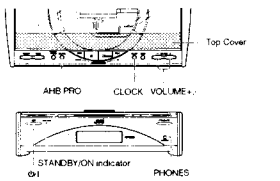
Unplug the cap and connect an optical digital cord (not supplied) between the System's CD DIGITAL OUT terminal and the input terminal of the MD recorder, etc.
You can record the digital output signal from the System's CD Player to the MD recorder, etc.



 * Use the plug whose diameter is 11mm or less

Basic Operations





Turning the Power On and Off

Turning the System On

Press the ⏻/I button.

The Top Cover moves backward and the Unit's top buttons appear. The display comes on and "HELLO" is displayed once. The STANDBY/ON indicator lights in **green**.
The System comes on ready to continue in the mode it was in when the power was last turned off.

- For example, if the last thing you were doing was listening to a CD, you are now ready to listen to a CD again. If you wish, you can change to another source.
- If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.

Turning the System Off

Press the ⏻/I button again.

The Top Cover moves back to the original position.
"GOOD BYE" is displayed and the display goes out, except for the clock display. The STANDBY/ON indicator lights in **red**.

- Some power is always consumed even though power is turned off (called Standby Mode).
- To switch off the System completely, unplug the AC power cord from the wall outlet. When you unplug the AC power cord, the clock will be reset to 0:00 after about 20 minutes.

Adjusting the Brightness (DIMMER)

You can adjust the brightness of the backlighting for the display.

When the System is Turned On

Each time you press the DIMMER button on the Remote Control, the brightness of the backlighting changes as follows:
Bright → Dark → (back to the beginning)

When the System is Turned Off (STANDBY MODE)

Each time you press the DIMMER button on the Remote Control, the brightness of the backlighting changes as follows:
No backlighting → Dark backlighting → (back to the beginning)

Note

- *When the System is turned off again after power on, the brightness in Standby mode will be restored to the previous one since the brightness setting in Standby mode is stored in memory.*

Adjusting the Volume

Press the VOLUME + button to increase the volume or press the VOLUME – button to decrease it.

You can adjust the volume level between 0 and 50.

⚠ CAUTION:
- **DO NOT turn on the System and/or start playing any source without first setting the VOLUME control to minimum, as a sudden blast of sound could damage your hearing, speakers and/or headphones.**

For private listening

Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers.
Be sure to turn down the volume before connecting or putting on headphones.

Fade-out Muting (FADE MUTING)

You can mute the output with one touch operation.

To mute the output, press the FADE MUTING button on the Remote Control. Then, the output will be faded out and becomes 0.

To release muting, press the FADE MUTING button once again. Then, the output will be faded in to the original level.

Reinforcing the Bass Sound (AHB PRO)

You can reinforce the bass sound to maintain rich, full bass at low volume.
To get the effect, press the AHB (Active Hyper Bass) PRO button.
The "AHB PRO" indicator lights up on the display.
To cancel the effect, press the button again.
The "AHB PRO" indicator goes out.

Tone Control (BASS/TREBLE)

You can control the tone by changing the bass and treble.

BASS Control

You can adjust the bass level (low frequency range level) between –6 and +6. (0: Flat)

1 Press the BASS button on the Remote Control.

2 Press the UP or DOWN button on the Remote Control to adjust the bass level.

BASS –6 ← → BASS +6

TREBLE Control

You can adjust the treble level (high frequency range level) between –6 and +6. (0: Flat)

1 Press the TREBLE button on the Remote Control.

2 Press the UP or DOWN button on the Remote Control to adjust the treble level.

TREBLE –6 ← → TREBLE +6

Showing the Time (CLOCK/DISPLAY)

You can show the current time on the display.

To display the clock, press the CLOCK button on the Unit or DISPLAY button on the Remote Control.
To return to the previous mode, press the same button again.

7:00

Note

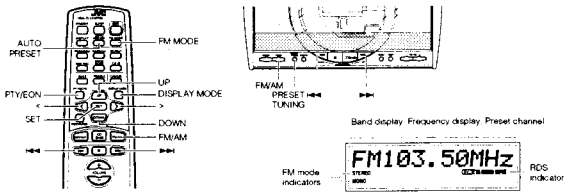
- *To let the clock work, you need to set the clock first. (See "Setting the Clock" on page 20.)*

Sliding the Top Cover (DOOR SLIDE)

Each time you press the DOOR SLIDE button on the Remote Control, the Top Cover slides back and forth.

Slide the Top Cover backward to allow Unit's top button operation. Slide it toward you to cover the buttons.

Using the Tuner



** When the System is in use, the display shows other items as well.*
For simplicity, we show here only the items described in this section.

You can listen to FM and AM (MW/LW) stations. Stations can be tuned in manually, automatically, or from preset memory storage.

■ Before listening to the radio:
- Make sure that both the FM and AM (MW/LW) antennas are correctly connected. (See pages 4 and 5).

One Touch Radio

Just press the FM/AM button to turn on the System and start playing the station you were last tuned to.

■ You can switch from any other sound source to the radio by pressing the FM/AM button.

Tuning in a Station

1 Press the FM/AM button.

The Band and Frequency you were last tuned to appear on the display.
(If the last station was selected using the preset number, the preset number appears first.)
Each time you press the button, the band alternates between FM and AM (MW/LW).

AM ← FM AM ← FM
(on the Remote Control) (on the Unit)

2 Select a station using one of the following methods.

● Manual Tuning
Press the ⏮ or ⏭ button on the Unit or the Remote Control repeatedly to move from frequency to frequency until you find the station you want.

OR

● Auto Tuning
If you press and hold the ⏮ or ⏭ button on the Unit or the Remote Control for one second or more, the frequency changes down, or up, automatically until a station is found.

OR

● Preset Tuning using the Remote Control (Possible only after presetting stations)
Select the desired preset number using the UP, DOWN, > and < button on the Remote Control. After 1 second the display will show the preset number's band and frequency.

Example:
Press the UP button until the preset number 12 "P12" appears.

P 12 → FM103.50MHz
(After 1 second)

● Preset Tuning using the Unit
Press the PRESET TUNING button to select the desired preset number.
Its band and frequency are displayed.

Note

- *In AM broadcast reception sensitivity will be changed by turning the AM loop antenna. Turn the AM loop antenna for best reception.*

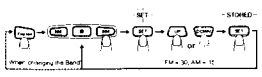
Presetting Stations

You can preset up to 30 FM stations and up to 15 AM (MW/LW) stations using the Remote Control.

Note

- *Preset numbers may have been set to factory test frequencies prior to shipment. This is not a malfunction. You can preset the stations you want into memory by following one of the presetting methods below.*

Manual Presetting



1 Select a band by pressing the FM/AM button.

2 Press the ⏮ or ⏭ button to tune in a station.

3 Press the SET button.
"SET" will blink for 5 seconds.
Within 5 seconds, proceed to the next step.
When the display returns to the one set in step 2 after 5 seconds, press the SET button again.

4 Press the UP, DOWN, >, or < button within 5 seconds to select the preset number.

UP or DOWN button: Increase or decrease the preset number by 1.
Pressing and holding the button will continuously increase or decrease the preset number.

> or < button: Increase or decrease the preset number by 1.
Pressing and holding the button will rapidly increase or decrease the preset number.

5 Press the SET button within 5 seconds.
"STORED" appears and after 2 seconds, the display returns to the broadcast frequency display.

6 Repeat above steps 1 to 5 for each station you want to store in memory with a preset number.
To change the preset stations, repeat the same steps as above.

Auto Presetting

In each band, you can automatically preset FM-30, AM-15 (MW/LW) stations. Preset numbers will be allocated as stations are found, starting from the lowest frequency and moving up the frequency.

FM/AM → AUTO PRESET (for 2 seconds)

1 Select a band by pressing the FM/AM button.

2 Press the AUTO PRESET button on the Remote Control for more than two seconds.

3 Repeat steps 1-2 for the other band.

■ If you want to change the preset stations, carry out the Manual Presetting for the desired preset numbers.

⚠ CAUTION:
- **Even if the system is unplugged or if the power failure occurs, the preset stations will be stored for about 24 hours. However, in case the preset stations are erased, you will need to preset the stations again.**

To Change the FM Reception Mode

When you are tuned into an FM stereo broadcast, the "STEREO" indicator lights up and you can hear stereo effects.
If an FM stereo broadcast is hard to receive or noisy, you can select Monaural mode. Reception improves, but you lose stereo effect.

Press the FM MODE button on the Remote Control so that the "MONO" indicator lights up on the display.

FM MODE → MONO

To restore the stereo effect, press the FM MODE button on the Remote Control so that the "MONO" indicator goes off.

Receiving FM Stations with RDS

You can use the RDS (Radio Data System) by using the buttons on the Unit or the Remote Control.
RDS allows FM stations to send additional signals with their regular programme signals. For example, the stations send their station names, and information about what type of programmes they broadcast, such as sports or music, etc. This unit can receive the following types of RDS signals:

PS (Programme Service):
shows commonly known station names.

PTY (Programme Type):
shows types of broadcast programmes.

RT (Radio Text):
shows text messages the station sends.

What information can RDS signals provide?
The display shows RDS signal information that the station sends.

To show the RDS signals on the display

Press the DISPLAY MODE button while listening to an FM station.
Each time you press the button, the display changes to show information in the following order:

DISPLAY MODE → PS → PTY → RT → Frequency

PS (Programme Service):
While searching, "PS" appears, then station name is displayed. "NO PS" appears if no signal is sent.

PTY (Programme Type):
While searching, "PTY" appears, then broadcast programme type is displayed. "NO PTY" appears if no signal is sent.

RT (Radio Text):
While searching, "RT" appears, then a text message sent by the station is displayed. "NO RT" appears if no signal is sent.

Station Frequency:
Station frequency (non-RDS service)

Notes

- *If searching finishes at once, "PS", "PTY" and "RT" will not appear on the display.*
- *If you press the DISPLAY MODE button while listening to an AM (MW/LW) station, the display only shows station frequency.*
- *RDS is not available for AM (MW/LW) broadcasts.*

On characters displayed
When the display shows PS, PTY or RT signals:
- The display cannot show accented letters. For example, "A" may represent accented "A's" like "Á, Â, Ã, Ä, Å and Ā".

[Example]

A	A, Á, Â, Ã, Ä, Å	K	K	U	U, Ú, Û, Ü, Ū	0	0	≠	*	⟨	<
B	B	L	L	V	V	1	1	+	+	⟩	>
C	C, Ć, Č,	M	M	W	W	2	2	–	-	=	=
D	D, Đ,	N	N, Ñ	X	X	3	3	,	.	\	\
E	E, É, Ê, Ë, Ē,	O	O, Ó, Ô, Ö, Ō, Ø	Y	Y	4	4	•	·	'	'
F	F	P	P	Z	Z, Ź, Ż,	5	5	/	/	‖	‖
G	G	Q	Q			6	6	–	–	!	!
H	H	R	R, Ŕ, Ř,			7	7	–	—		
I	I, Í, Ī, Ï,	S	S, Ś, Š,			8	8	–	—		
J	J	T	T			9	9	/	|		

To search for a programme by PTY codes

One of the advantages of the RDS service is that you can locate a particular kind of programme by specifying the PTY codes.
To search for a programme using PTY or TA codes:

1 Press the PTY/EON button once while listening to an FM station.

"PTY SELECT" appears on the display.

2 Select the PTY code using the UP or DOWN button on the Remote Control or the ⏮ or ⏭ button.

Each time you press the button, the display shows a category in the following order:

News ↔ Affairs ↔ Info ↔ Sport ↔ Educate ↔ Drama ↔ Culture ↔ Science ↔ Varied ↔ Pop M ↔ Rock M ↔ Easy M ↔ Light M ↔ Classics ↔ Other M ↔ Weather ↔ Finance ↔ Children ↔ Social ↔ Religion ↔ Phone In ↔ Travel ↔ Leisure ↔ Jazz ↔ Country ↔ Nation M ↔ Oldies ↔ Folk M ↔ Document ↔ TEST ↔ Alarm ! ↔ News

3 Press the PTY/EON button within 10 seconds again.

While searching, the display alternates between "SEARCH" and the selected PTY code.
The unit searched 30 preset stations and stops when it finds a station of the category you have selected, then tunes into that station.

To continue searching after the first stop, press the PTY/EON button again while the display indications blink.
If no programme is found, "NOT FOUND" appears on the display.

To stop searching at any time during the process, press the PTY/EON button to stop search operation.

Descriptions of the PTY Codes

News:	News
Affairs:	Topical programme expanding on the current news or affairs
Info:	Programmes on medical service, weather forecasts, etc.
Sport:	Sports events
Educate:	Educational programmes
Drama:	Radio plays
Culture:	Programmes on national or regional culture
Science:	Programmes on natural sciences and technology
Varied:	Other programmes like comedies or ceremonies
Pop M:	Pop music
Rock M:	Rock music
Easy M:	Middle-of-the-road music (usually called "easy listening")
Light M:	Light music
Classics:	Classical music
Other M:	Other music
Weather:	Weather information
Finance:	Reports on commerce, trading, the Stock Market, etc.
Children:	Entertainment programmes for children
Social:	Programmes on social activities
Religion:	Programmes dealing with any aspect of belief or faith, or the nature of existence or ethics
Phone In:	Programmes where people can express their views either by phone or in a public forum
Travel:	Programmes about travel destinations, package tours, and travel ideas and opportunities
Leisure:	Programmes concerned with recreational activities such as gardening, cooking, fishing, etc.
Jazz:	Jazz music
Country:	Country music
Nation M:	Current popular music from another nation region, in that country's language
Oldies:	Classic pop music
Folk M:	Folk music
Document:	Programmes dealing with factual matters, presented in an investigative style
TEST:	Test broadcasts
Alarm !:	Emergency broadcasts

To temporarily switch to a broadcast programme of your choice

EON (Enhanced Other Networks) is another convenient RDS service that allows this unit to switch temporarily to a broadcast programme of your choice (NEWS, TA or INFO) from the currently selected station, except if you are listening to a non-RDS station (all AM (MW/LW) stations or some FM stations).

- If an FM station does not broadcast EON information, EON cannot be activated.

To select a programme type

1 Press the PTY/EON button twice while listening to an FM station.

"EON SELECT" apears on the display.

2 Select the programme type with the UP or DOWN button on the Remote Control or the ⏮ or ⏭ button.

The display shows a programme type in the following order:

TA: Traffic Announcement
NEWS: News
INFO: Programmes on medical service, weather forecast, etc.
OFF: EON off

3 Press the PTY/EON button within 10 seconds again to set the selected programme type.

The selected programme type indicator lights up on the display, and the unit enters EON Standby mode.

- The EON indicator lights up when tuned to a station which provides EON information.

Case 1:If there is no station broadcasting the type of programme you have selected

The broadcast station being currently heard will continue to be heard.

⬇

When a station starts broadcasting the programme you have selected, this unit automatically switches to the station. The programme type (TA, NEWS or INFO) indicator starts blinking.

⬇

When the programme is over, this unit goes back to the currently selected station, but still remains in EON Standby mode.

Case 2:If there is a station broadcasting the type of programme you have selected

This unit tunes to the station broadcasting the programme. The programme type (TA, NEWS or INFO) indicator starts blinking.

⬇

When the programme is over, this unit goes back to the currently selected station, but still remains in EON Standby mode.

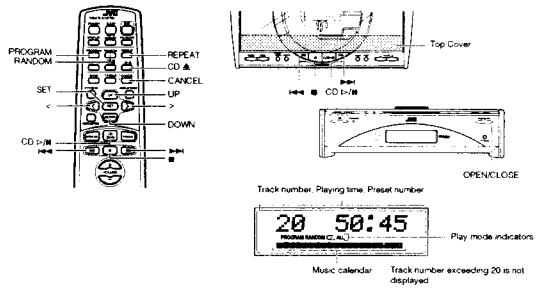
Notes

- *If the EON is in standby mode and the function (CD, MD/AUX) switch is changed or the power is switched off, then the EON mode will be released. When the band is set to AM (MW/LW), the EON is not activated. When the band is set to FM again, the EON will be set to standby mode.*
- *When the EON is being operated (i.e. the selected programme type is being received from the broadcast station) and if the DISPLAY MODE or ⏮, ⏭ button is operated, the station will not switch back to the current selected station even after the programme ends. The programme type indicator remains in the display, indicating that the EON is in standby mode.*
- *When the alarm signal is detected by EON, the station broadcasting the alarm is received with priority. "Alarm !" is not displayed.*

⚠ CAUTION:

- **When the sound alternated intermittently between the station tuned in by the EON function and the current selected station, cancel the EON mode. This does not constitute malfunction of the unit.**

Using the CD Player



** When the System is in use, the display shows other items as well. For simplicity, we show here only the items described in this section.*

You can use Normal, Random, Program or Repeat Play. Repeat Play can repeat all the tracks or just one of the tracks on the CD.
Here are the basic things you need to know to play a CD and locate the different tracks on it.

The Quickest Way To Start a CD is With the One Touch Operation

■ Press the CD ⊳/II button on the Remote Control.

- The power is automatically turned on and the Top Cover moves backward to allow the Unit's top button operation. If a CD is already inserted, it will start playing from the first track.
- If no CD is inserted, "NO DISC" appears on the display and the CD Player remains in Stop mode.

To Insert a CD

1 Press the OPEN/CLOSE button on the Unit (or the CD ⏏ button on the Remote Control).

The Top Cover opens.

2 Place a CD, with its label side up as shown below. Press down on the CD's center until you hear a click.

3 Press the OPEN/CLOSE button (or CD ⏏ button) again to close the Top Cover.

- To close the Top Cover and play the CD, you can just press the CD ⊳/II button.

■ You can place an 8 cm (3") CD without an adaptor.

■ If the CD cannot be read correctly (because it is scratched, for example), " 0 0:00" appears on the display.

■ You can insert a CD while listening to the other source.

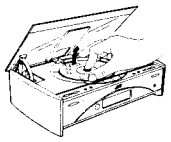
⚠ CAUTION:

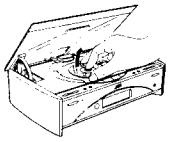
- **DO NOT try to open or close the Top Cover by hands as it will be damaged.**

English

To Unload a CD

Take out the CD as shown below.





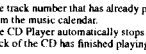
Basics of Using the CD Player-Normal Play

To Play a CD

1 Insert a CD.

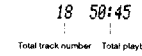
2 Press the CD ⊳/II button.

The first track of the CD begins playing.



- The track number that has already played disappears from the music calendar.
- The CD Player automatically stops when the last track of the CD has finished playing.

To stop playing the CD, press the ■ button.
The following information for the CD is displayed.



To stop playing and remove the CD, press the OPEN/CLOSE button on the Unit or CD ⏏ button on the Remote Control to open the Top Cover.

To pause, press the CD ⊳/II button. The playback time blinks on the display.
To cancel pause, press the same button again. Play continues from the point where it was paused.

To Select a Track or Passage within a Track

During playback, press the ⏮ or ⏭ (< or >) button to select the track you want.

- The selected track starts playing.
- Press the ⏭ or > button once to skip to the beginning of the next track.
- Press the ⏮ or < button to skip to the beginning of the track being played. Press twice quickly to skip to the beginning of the previous track.
- When the > or < button on the Remote Control is kept pressing, the track continuously skips.

Search Play

Holding down the ⏮ or ⏭ button, during playback, will fast forward/backwards the CD so you can quickly find a particular passage in the track you are listening to.

Programming the Playing Order of the Tracks

You can program the playing order of the tracks **using the Remote Control.**

■ You can program up to 32 tracks in any desired order including the same tracks.

■ You can only make a program when the CD Player is stopped.

1 Insert a CD.

2 Press the CD ⊳/II button.

3 Press the ■ button to stop the CD.

4 Press the PROGRAM button.

The System enters the programming mode and the "PROGRAM" indicator lights up.

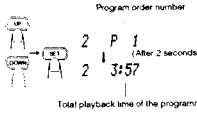
5 Press the UP, DOWN, >, or < button to select the track to program.

UP or > button: Increases the track number by 1.
DOWN or < button: Decreases the track number by 1.

- When the > or < button is kept pressing, the track number changes rapidly.

English

6 Press the SET button.



7 Repeat steps 5 and 6 to select the other tracks for the program.

You can see the total playback time of programmed tracks on the display. Also, you can see the programmed tracks on the music calendar.

8 Press the CD ▷/II button.

The System plays the tracks in the order you have programmed them.

■ You can skip to a particular program track by pressing the I◄◄ or ►►I button during Program Play.

■ To stop playing, press the ■ button once.
To confirm the programmed tracks while the CD player is stopped, each time press the I◄◄ or ►►I button; the tracks making up the program will successively be displayed in the programmed order.
To delete all the tracks in the program, in stop mode, press the ■ button. Pressing the CD ≜ button to open the Top Cover will also clear the programmed tracks.
To exit the program mode once, while the CD Player is stopped, press the PROGRAM button to light off the "PROGRAM" indicator.

Notes

- *If the total playback time of the programmed tracks exceeds 99 minutes 59 seconds, the total playback time will go out on the display.*
- *If you try to program the 33rd track, "MEMORY FULL" appears on the display for about 2 seconds.*

To Modify the Program

Modify the contents of the program while the CD Player is stopped.
Each time you press the CANCEL button, the last track in the program is deleted. To add new tracks to the end of the program, repeat above steps 5 to 7.

Random Play

The tracks will play in no special order when you use this mode.

1 Press the RANDOM button on the Remote Control.

The "RANDOM" indicator lights up on the display.

2 Press the CD ▷/II button.

The tracks are played in random order.
To skip a track during playback, press the ►►I button to jump to the next track in the random sequence. Press the I◄◄ button to jump back to the start of a track being played.
To exit Random Play mode, while the CD Player is stopped, press the RANDOM button to light off the "RANDOM" indicator and carry out Normal Play, or press the CD ≜ button to open the Top Cover.

Repeating Tracks

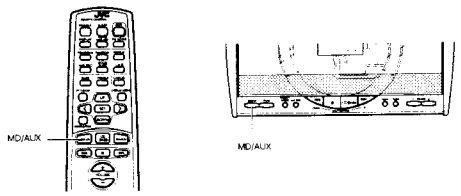
You can repeat all tracks or individual track, as many times as you like.

Press the REPEAT button on the Remote Control.
The Repeat indicator changes with each press of the button, as shown below.
⊂ → ⊂ ALL → blank display → (back to the beginning)
⊂ : Repeats one track.
⊂ ALL: In Normal Play mode, repeats all the tracks.
In Program Play mode, repeats all the tracks in the program.
In Random Play mode, repeats all the tracks in random order.
To exit Repeat mode, press the REPEAT button until the Repeat indicator on the display goes out.

■ In Random Play, ⊂ cannot be selected.

■ Repeat mode remains in effect even when you change the play mode.

Using External Equipments



Listening to External Equipment

You can listen to external equipment such as MD recorder, turntable or other auxiliary.

■ First make sure that the external equipment is properly connected to the System. (See page 7).

1 Set the VOLUME control to the minimum position.

2 Press the MD/AUX button.

"MD/AUX" appears on the display.

MD/AUX

3 Start playing the external equipment.

4 Adjust the VOLUME control to the desired listening level.

5 Apply sound effects, if you wish.

■ Press the AHB PRO button to reinforce the bass sound.

■ Press the BASS/TREBLE button on the Remote Control to control the tone. (See "Tone Control" on page 10.)

To exit MD/AUX mode, you will automatically switch out of MD/AUX mode when you select another source.

Note

- *For operation of the external equipment, refer to its instructions.*

Recording the System's Source to External Equipment

You can record the System's source to external equipment which is connected to the MD/AUX-IN/OUT or CD DIGITAL OUT terminals of the System, such as cassette deck or MD recorder, etc.

■ First make sure that the external equipment is properly connected to the System. (See page 7).

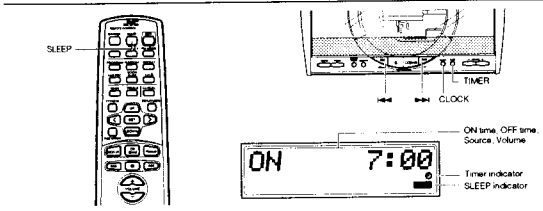
Play the System's CD Player or tune in to a station.

■ The recording level is not affected by the VOLUME level set by the System. Also it is not affected by the sound effects.

Note

- *For operation of the external equipment, refer to its instructions.*

Using the Timers



** When the System is in use, the display shows other items as well. For simplicity, we show here only the items described in this section.*

The timers let you control listening functions automatically.

Setting the Clock

- Use the Unit's button to set the clock.
- When you plug the AC power cord into the wall outlet, the time indication "0:00" blinks on the display.

Notes

- *The clock must be correctly set for the timers to work.*
- *The procedure must be completed within* ***two minutes****. Otherwise, the setting is cleared and must be repeated from the beginning.*

1 Press the ⏻/I button.

Then, the Unit's top buttons appear.

(for 2 seconds)

2 Press the CLOCK button on the Unit for more than two seconds.

The hour digit of the time indication rapidly blinks on the display.

3 Press the ►►I or I◄◄ button on the Unit to set the hour.

Pressing the ►►I button moves the time forwards and pressing the I◄◄ button moves it backwards. Hold down the button to move the time rapidly.

4 Press the CLOCK button.

The minute digits of the time indication rapidly blink on the display.

5 Press the ►►I or I◄◄ button to set the minute.

6 Press the CLOCK button.

The selected time is set and the seconds start counting from 0.

⚠ CAUTION:

- **If there is a power failure, the clock loses its setting after about 20 minutes. "0:00" blinks on the display and the clock must be reset.**

Note

- *The clock may gain or lose one to two minutes per month.*

Setting the Daily Timer

Once you have set the Daily Timer, the timer will be activated at the same time every day.
The Timer indicator on the display shows that the Daily Timer you have set is in effect.
- Use the Unit's button to set the timer.

Note

- *Perform each setting within* ***30 seconds****. Otherwise, setting will be cleared and the procedure must be repeated from the beginning.*

1 Setting the ON time (Example: 10:15).

1. Press the TIMER button on the Unit for more than two seconds.
The Timer indicator lights up and the hour digit of the current ON time blinks on the display.
- When the clock is not set, "CLOCK" and "ADJUST" appear alternately on the display. Set the clock first.

ON -7:00

Press the ►►I or I◄◄ button on the Unit to set the hour you want the Unit to come on.
Pressing the ►►I button moves the time forwards and pressing the I◄◄ button moves it backwards. Hold down the button to move the time rapidly.

ON -10:00

2. Press the TIMER button.
The minute digits of the ON time blink on the display.

ON 10:00

Set the minute you want the Unit to come on, using the ►►I or I◄◄ button.

ON 10:15

2 Setting the OFF time (Example: 13:30).

1. Press the TIMER button.
The hour digit of the OFF time blinks on the display. (The same time as the ON time will be automatically set.)

OFF -10:15

Set the hour you want the Unit to be turned off, using the ►►I or I◄◄ button.

OFF -13:15

2. Press the TIMER button.
The minute digits of the OFF time blink on the display.

OFF 13:15

Set the minute you want the Unit to be turned off, using the ►►I and I◄◄ buttons.

OFF 13:30

3 Selecting the music source.

1. Press the TIMER button.
The "TUNER" or "CD" blinks on the display.
2. Press the ►►I or I◄◄ button to select the music source you want to listen to.
The display changes as shown below.
TUNER↔CD↔(back to the beginning)

4 Setting the volume level.

1. Press the TIMER button.
The current volume setting blinks on the display.
2. Press the ►►I or I◄◄ button to select the volume level.
– :The current volume level will be used.
0 to 50 :When the timer is turned on, the Volume will be automatically set to the selected level.

VOLUME -15

5 Press the TIMER button.

The timer setting is completed and the display returns to the display before you set the Timer. The Timer indicator remains lit.

6 Before turning off the System, prepare the music source selected in step 3.

TUNER: Tune in to the desired station.
CD: Insert a CD. (Playback will start from the first track at Timer on.)

7 Press the ⏻/I button to turn off the System.

In standby mode, you can see the Timer indicator (⏲) on the display.
- When the timer turns on, the Timer indicator starts blinking and the prepared source in step 6 will be played.

To cancel the timer, press the TIMER button. The Timer indicator (⏲) goes out on the display.
To re-activate the cancelled timer, press the TIMER button to light the Timer indicator (⏲).
At this time, you can see the current timer settings. Each setting appears on the display for two seconds in the order of ON time, OFF time, music source and volume.
To change the timer setting, repeat the setting procedure from the beginning.

⚠ CAUTION:

- **If the System is unplugged, or a power failure occurs, the timer setting will be lost. You will need to reset the clock first, then the timer.**

Setting the SLEEP Timer

(Using the Remote Control)
Use the Sleep Timer to turn the System off after a certain number of minutes when it is playing. By setting the Sleep Timer, you can fall asleep to music and know that your System will turn off by itself rather than play all night.

■ You can only set the Sleep Timer when the System is on and a source is playing.

1 Play a CD or tune in to the desired station.

2 Press the SLEEP button on the Remote Control.

The "SLEEP" indicator lights up.

■ When the clock is not set, "CLOCK" and "ADJUST" appear alternately on the display. Set the clock at first.

3 Set the length of time you want the source to play before shutting off.

- Each time you press the SLEEP button, it changes the number of minutes shown on the display in this sequence:
  10 → 20 → 30 → 60 → 90 → 120 → Cancelled → (back to the beginning)

The selected number of minutes for the Sleep Timer will stop blinking five seconds later and the display returns to the original one before setting the Sleep Timer. (The display is dimmed.)
The System is now set to turn off after the number of minutes you set.

To Confirm the Sleep Time:
When the SLEEP button is pressed, the remaining sleep time is displayed. Wait until the display returns to the original display.

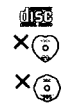
To Cancel the SLEEP Timer Setting:
Press the SLEEP button until the "SLEEP" indicator goes out on the display.
Turning off the System also cancels the SLEEP Timer.

■ If you are setting the Daily Timer, the System will be turned on at the set time to wake you up.

Care And Maintenance

Handle your CDs carefully, and they will last a long time.

Compact Discs



- Only CDs bearing this mark can be used with this System. However, continued use of irregular shape CDs (heart-shape, octagonal, etc.) can damage the System.

- Remove the CD from its case by holding it at the edges while pressing the case's center hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.

- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from center to edge.

CAUTION:

- **Do not use any solvent (for example, conventional record cleaner, spray thinner, benzine, etc.) to clean a CD.**

General Notes

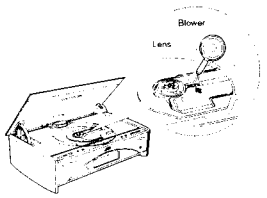
In general, you will have the best performance by keeping your CDs and the mechanism clean.

- Store CDs in their cases, and keep them in cabinets or on shelves.
- Keep the System's Top Cover closed when not in use.

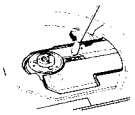
Cleaning the Lens

If the lens in the CD pickup is dirty, dropout, etc., could degrade sound.
Open the Top Cover and clean the lens as shown.

- Use a blower (available from a camera store) to blow dust off the lens.



- If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.



Moisture Condensation

Moisture may condense on the lens inside the System in the following cases:

- After turning on heating in the room.
- In a damp room.
- If the System is brought directly from a cold to a warm place.

Should this occur, the System may malfunction. In this case, leave the System turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

Troubleshooting

- If you are having a problem with your System, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the System has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	Action
No sound is heard.	• Connections are incorrect, or loose. • Headphones are connected.	• Check all connections and make corrections. (See pages 4 to 8.) • Disconnect the headphones.
Poor radio reception	• The antenna is disconnected. • The AM Loop Antenna is too close to the System. • The FM Wire Antenna is not properly extended and positioned.	• Reconnect the antenna securely. • Change the position and direction of the AM Loop Antenna. • Extend FM Wire Antenna to the best reception position.
The CD skips.	The CD is dirty or scratched.	Clean or replace the CD.
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.
Unable to operate the Remote Control.	• The path between the Remote Control and the sensor on the Unit is blocked. • The batteries have lost their charge.	• Remove the obstruction. • Replace the batteries.
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the System then plug it back in after a few minutes.

Specifications

Amplifier
Output Power 38 W (19 W + 19 W) at 4 ohms (Max.)
30 W (15 W + 15 W) at 4 ohms (10% THD)
Input Sensitivity/Impedance (1 kHz)
MD/AUX IN 500 mV/47 kohms
Output Sensitivity/Impedance (1 kHz)
MD/AUX OUT 500 mV/5 kohms
CD DIGITAL OUT (Optical out) −21 dBm - −15 dBm
Speaker terminals 4 - 16 ohms
Subwoofer out 230mV/19kohms
Phones 16 ohms - 1 kohm
0 - 15 mW/ch output into 32 ohms

CD Player
Signal-To-Noise Ratio 90 dB
Wow And Flutter Unmeasurable

Tuner
FM Tuner
Tuning Range 87.5 MHz - 108.0 MHz
AM Tuner
Tuning Range (MW) 522 kHz - 1,629kHz
(LW) 144 kHz – 288kHz

Center Unit (FS-SD5R/SD7R/SD9R)
Dimensions 300mm × 75mm × 215mm (W/H/D)
Mass Approx. 3.0kg

Speaker Specifications (each unit)
FS-SD5R
Speakers 8 cm cone
Impedance 4 ohms
Dimensions 100mm × 186mm × 193.5mm (W/H/D)
Mass 1.5kg

FS-SD7R
Speakers 8 cm cone
Impedance 4 ohms
Dimensions 137mm × 231mm × 141mm (W/H/D)
Mass 1.4kg

FS-SD9R
Speakers 8 cm cone
Impedance 4 ohms
Dimensions 135mm × 231mm × 141mm (W/H/D)
Mass 1.4kg

Accessories
Power Cord (1)
AM Loop Antenna (1)
Remote Control (1)
Batteries R6P (SUM-3)/AA (15F) (2)
FM Wire Antenna (1)
Speaker Cords (2)
Spacers (6) (only for FS-SD7R/SD9R)

Power Specifications
Power Requirements AC 230 V ~, 50 Hz
Power Consumption 25 watts (power on mode)
1.9 watts (in Standby mode)

Design and specifications are subject to change without notice.

JVC
VICTOR COMPANY OF JAPAN, LIMITED

0200MNMCREJSC

<<MEMO>>

Disassembly method

<Main body>

■Removing the rear cover (See Fig.1)

1. Remove the ten screws A and the five screws B attaching the rear cover on the back of the body.

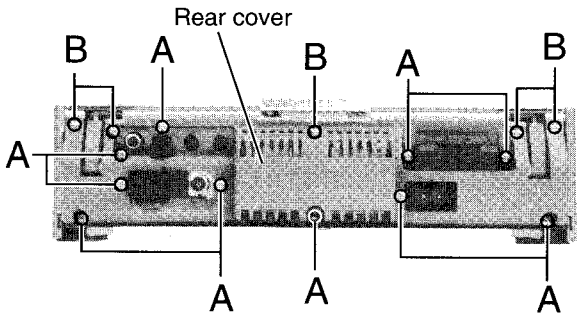


Fig.1

■Removing the right and left covers (See Fig.2)

- Prior to performing the following procedure, remove the rear cover.

1. Remove the four screws C attaching the side covers on the bottom of the body.

2. Move the left cover backward and remove outward. Also remove the right cover in the same way.

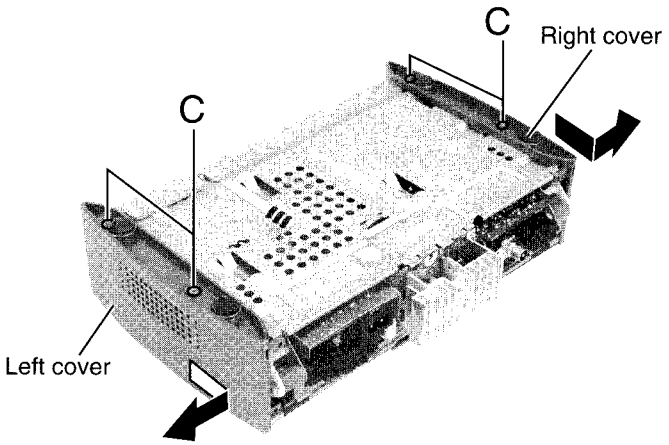


Fig.2

■Removing the front panel assembly (See Fig.3 to 5)

- Prior to performing the following procedure, remove the rear cover and the side covers.

1. Remove the three screws D on the bottom of the body.

2. Release two joints a and two joints b on both sides of the body using a screwdriver and remove the front panel assembly toward the front.

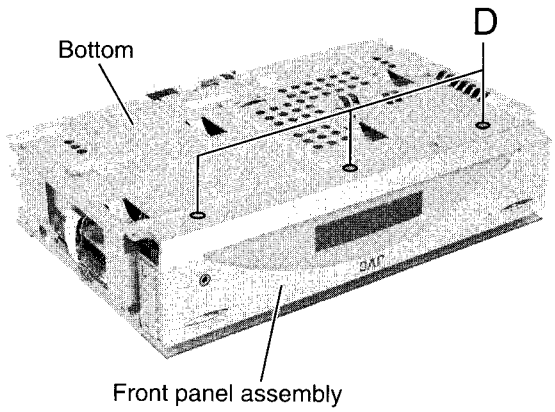


Fig.3

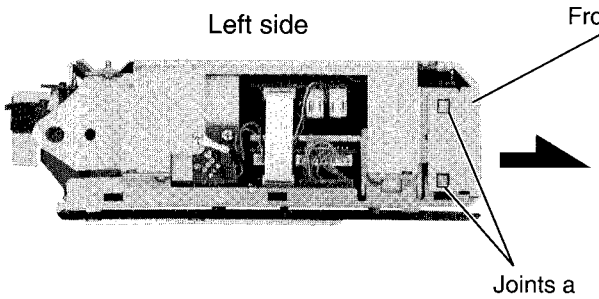


Fig.4

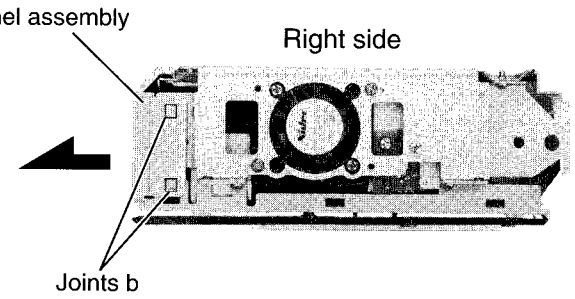


Fig.5

■Removing the CD mechanism base assembly (See Fig.6 to 13)

- Prior to performing the following procedure, remove the rear cover, the side covers and the front panel assembly.

1. Remove the four screws E attaching the CD door on the upper side of the body.

2. Disconnect the card wire from connector CN104 and CN105 of the main board in the front part of the body. Disconnect the card wire from CN101 of the main board on the right side, and the harness from CN705 and CN708 of the CD mechanism base assembly respectively.

3. Remove the four screws F attaching the CD mechanism base assembly on the upper side of the body. Remove the screw I attaching the earth terminal on the right side.

4. Remove the screw G attaching the heat sink board on the back of the body. Disconnect the harness from connector CN301 and pull the heat sink board fully outward.

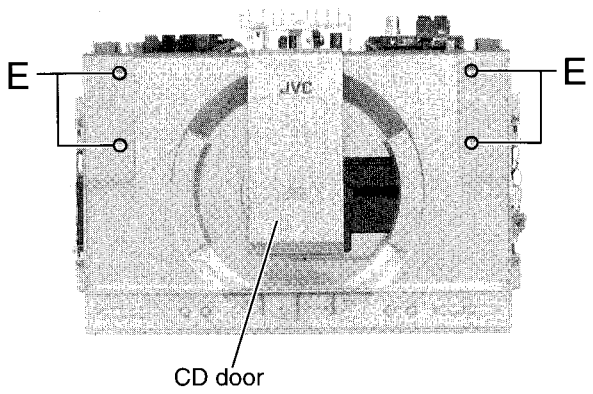


Fig.6

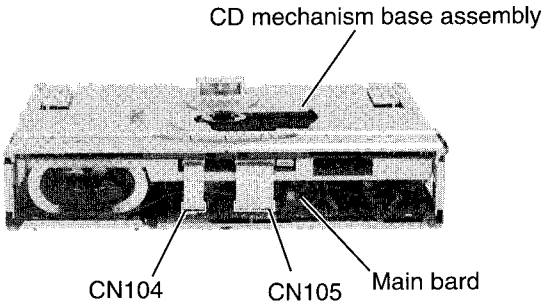


Fig.7

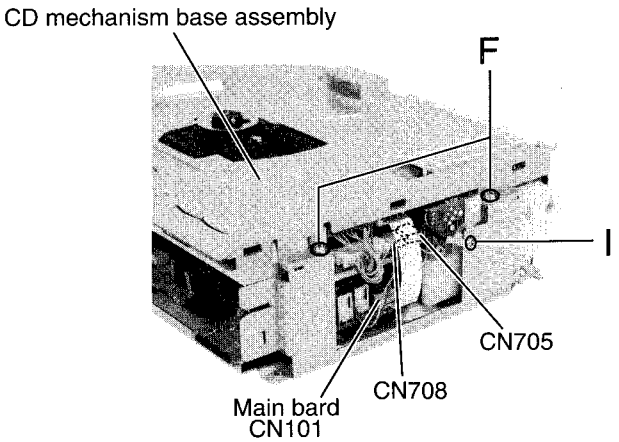


Fig.8

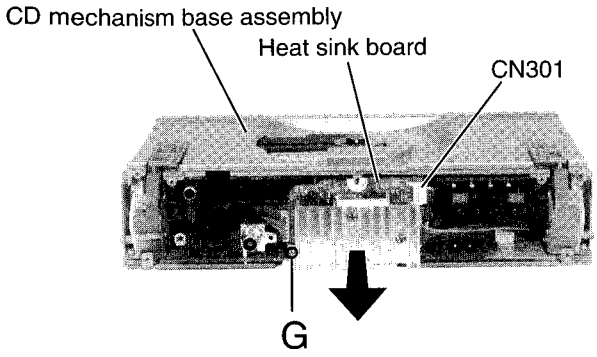


Fig.10

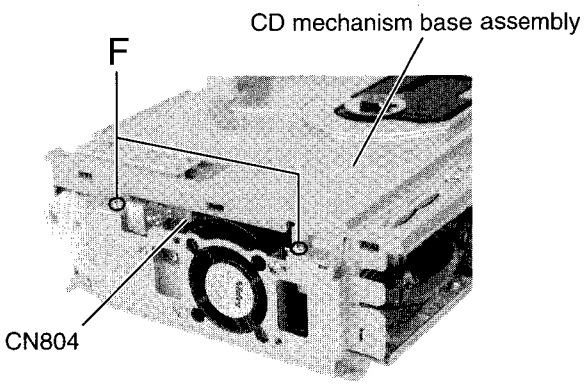


Fig.9

5. Raise the right and left door arms by turning the gear a in the rear of the heat sink board.

6. After the CD mechanism base assembly is detached from the door arms, pull the CD mechanism base assembly toward the front and disconnect the harness from connector CN804 on the left side of the door arm board.

7. Pull out the CD mechanism base assembly toward the front.

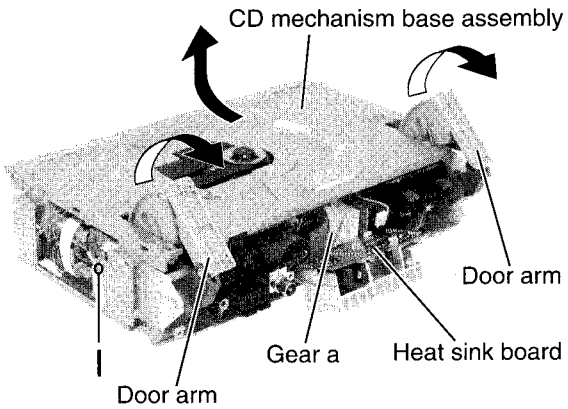


Fig.11

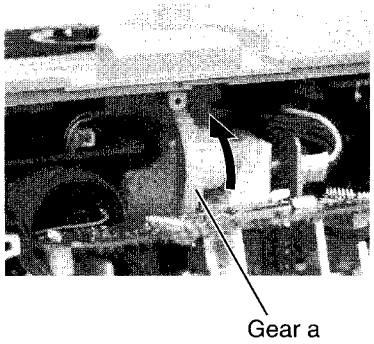


Fig.12

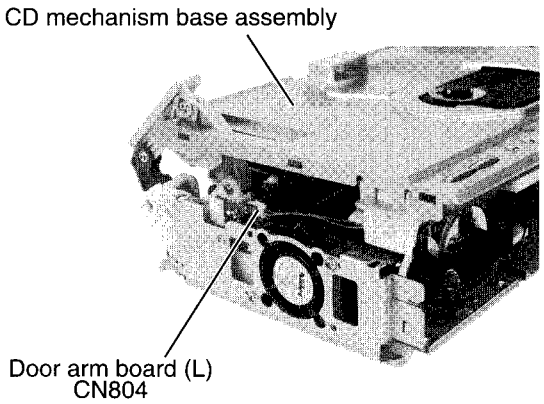


Fig.13

■Removing the door arm assembly / the door arm board (R) and (L) (See Fig.14 to 19)

- Prior to performing the following procedure, remove the rear cover, the side covers, the front panel assembly and the CD mechanism base assembly.

1. In case that the upper parts of the door arms attached to the CD door are not level, let down them to the level position by turning the gear a in the direction of the arrow.

   ATTENTION: When the door arms incline, the door arm assembly and the door arm board (R) and (L) may not be removed.

2. Remove the four screws H on the upper side and the one screw I on the left side of the body.

3. Remove the four screws J attaching the door arm board (L) and (R) on both sides of the door arm assembly.

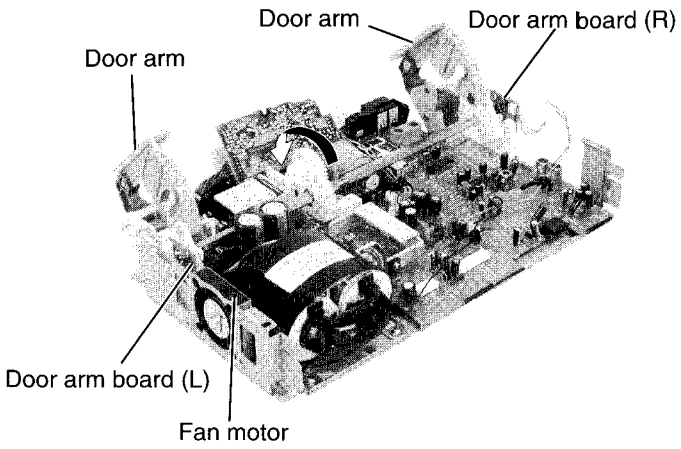


Fig.14

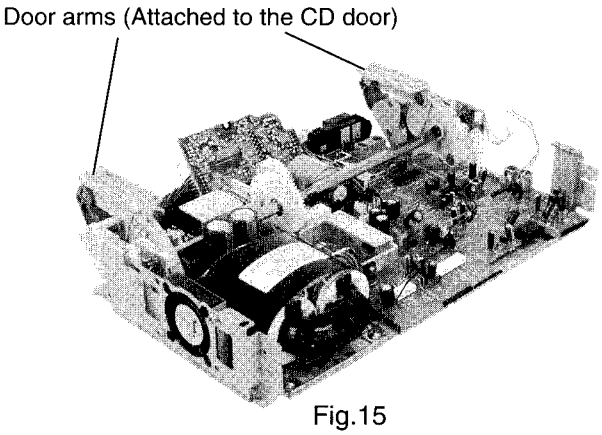


Fig.15

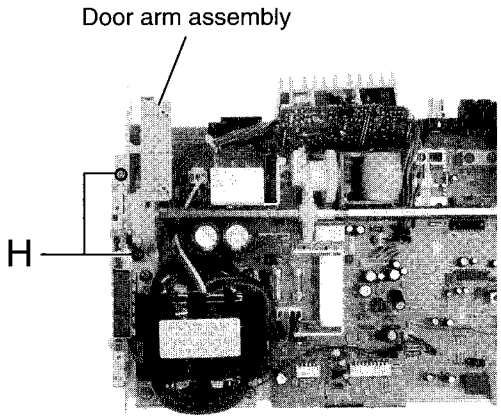


Fig.16

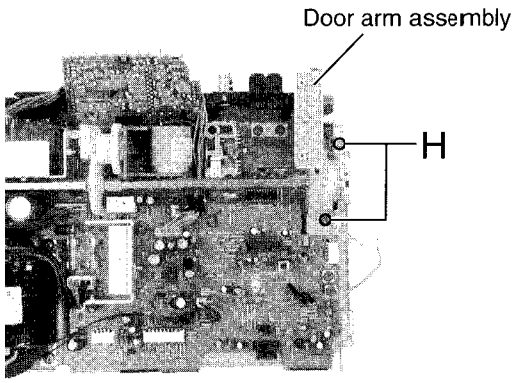


Fig.17

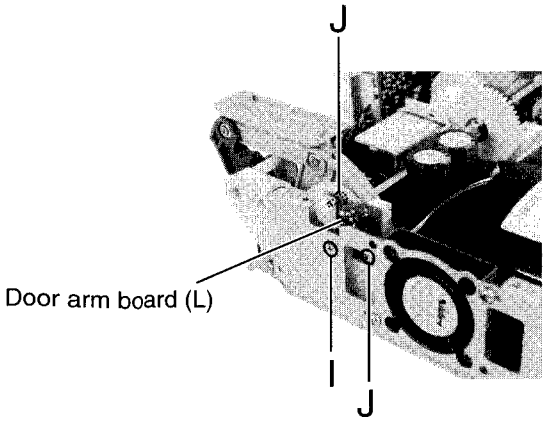


Fig.18

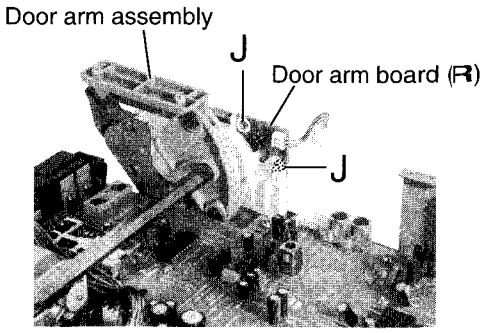


Fig.19

■Removing the power amplifier board (See Fig.20 and 21)

- Prior to performing the following procedure, remove the CD mechanism base assembly.

1. Disconnect the harnesses from connector CN102 and CN193 on the main board and release them from the cord stopper respectively.
2. Remove the two screws K and the two screws L attaching the heat sink and the power amplifier board.

■Removing the transformer assembly (See Fig.20)

- Prior to performing the following procedure, remove the CD mechanism base assembly.

1. Disconnect the harnesses from connector CN191 and CN192 on the main board and release them from the cord stopper respectively.
2. Remove the four screws M attaching the transformer assembly.

■Removing the gear motor assembly (See Fig.22 to 24)

- Prior to performing the following procedure, remove the CD mechanism base assembly and the door arm assembly.

1. 1.Disconnect the harness from connector CN106 on the main board and release it from the cord stopper.
2. 2.Remove the three screws N attaching the gear motor assembly. Remove the gear motor assembly with the gear motor stopper.
3. Remove the belt from the gear motor assembly.
4. Remove the two screws O from the gear motor assembly.

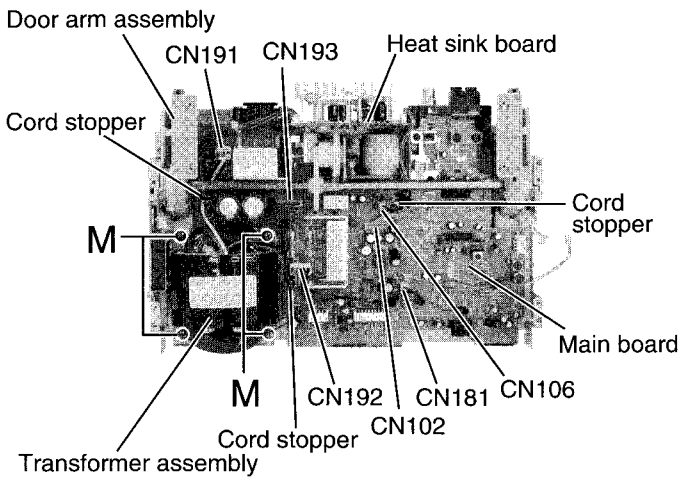


Fig.20

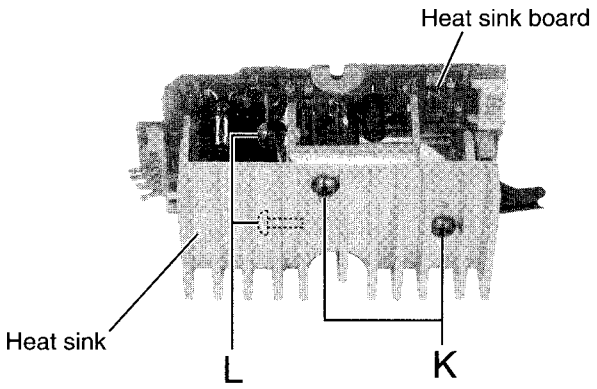


Fig.21

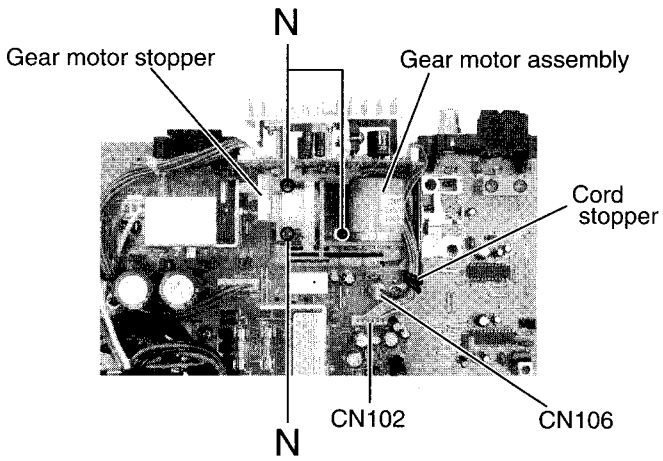


Fig.22

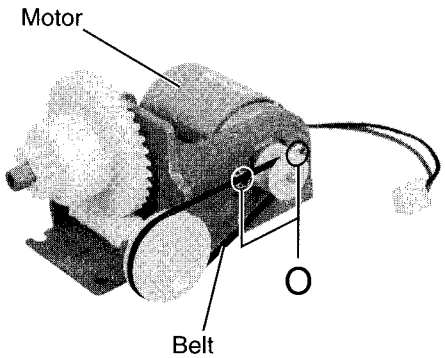


Fig.23

■Removing the fan motor assembly (See Fig.24 and 25)

- Prior to performing the following procedure, remove the CD mechanism base assembly.

1. Disconnect the harness from connector CN181 on the main board.
2. Remove the two screws P on the left side of the body. Move the fan motor assembly upward to remove it from the base chassis.
3. Remove the two screws Q and the fan motor from the fan bracket.

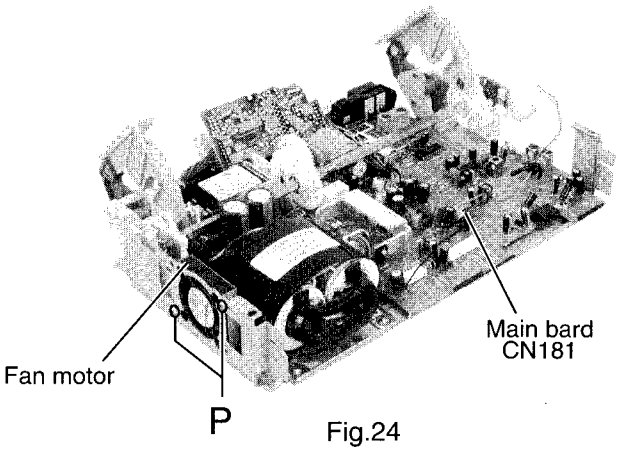


Fig.24

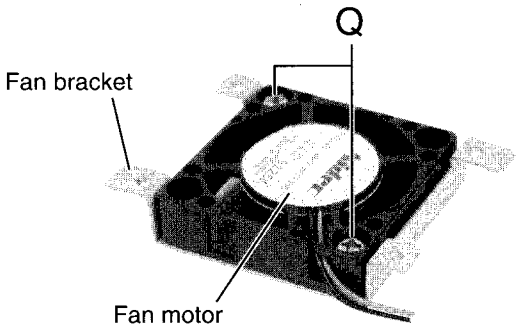


Fig.25

■Removing the main board (See Fig.26)

- Prior to performing the following procedure, remove the CD mechanism base assembly and the door arm assembly.
- To facilitate operation process, remove the gear motor assembly before performing the following procedure.

1. Disconnect the harnesses from connector CN102, CN106, CN191, CN192, CN193 and CN181 on the main board.
2. Remove the five screws R attaching the main board with the cord clamp.

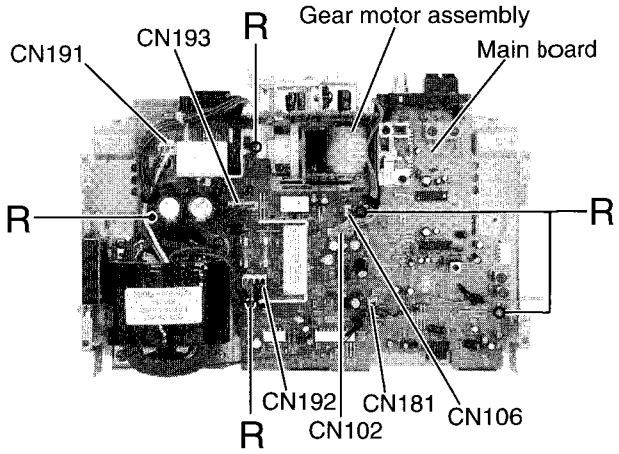


Fig.26

<Front panel assembly>

■Removing the front panel board (See Fig.27)

- Prior to performing the following procedure, remove the front panel assembly.

1. Remove the seven screws S attaching the front panel board inside the front panel assembly.

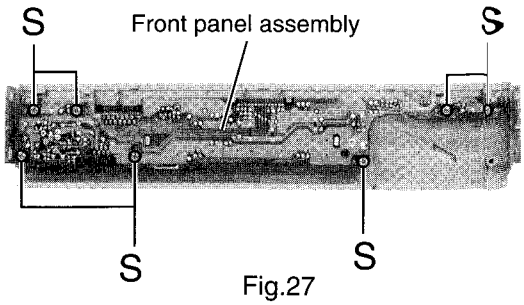


Fig.27

<CD mechanism base assembly>

- Prior to performing the following procedure, remove the CD mechanism base assembly.

■Removing the speaker terminal board (See Fig.28)

1. Remove the two screws T attaching the speaker terminal board on the underside of the CD mechanism base assembly.

■Removing the CD mechanism board / CD mechanism assembly (See Fig.28 to 32)

1. Turn over the CD mechanism base assembly and disconnect the harness from connector CN703 and CN706 on the CD mechanism board.

2. Turn over the CD mechanism base assembly and disconnect the harness from connector CN703 and CN706 on the CD mechanism board.

3. Turn back the CD mechanism assembly and detach the CD mechanism cover while pulling the CD mechanism assembly outward to release the two joint tabs marked c.

4. Disconnect the card wire from the connector of the CD mechanism assembly inside the CD mechanism cover. Disconnect the harness from CN605 on the CD mechanism board. Pull the CD mechanism assembly out of the three shaft of the CD mechanism cover.

   ATTENTION: When reassembling, confirm that the cushion of the CD mechanism assembly is reattached to the three shafts.

5. Remove the CD mechanism board from the CD mechanism cover.

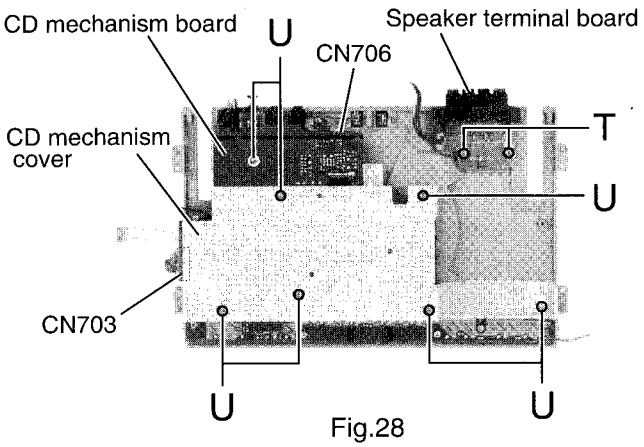


Fig.28

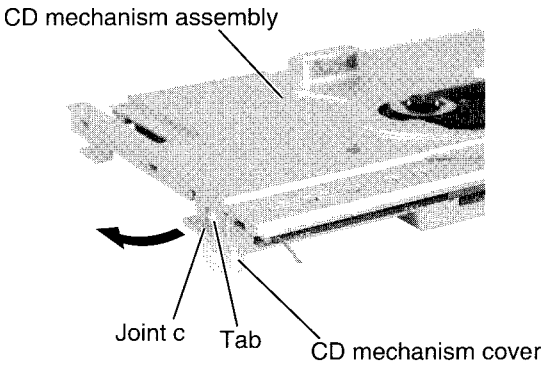


Fig.29

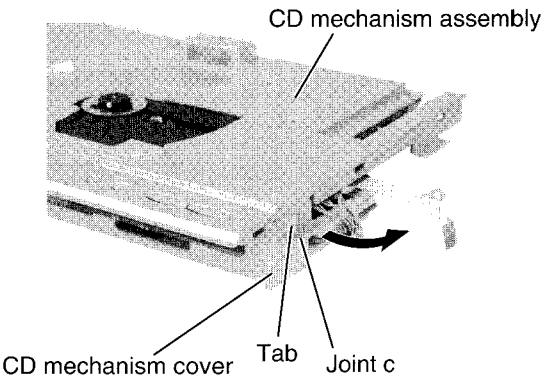


Fig.30

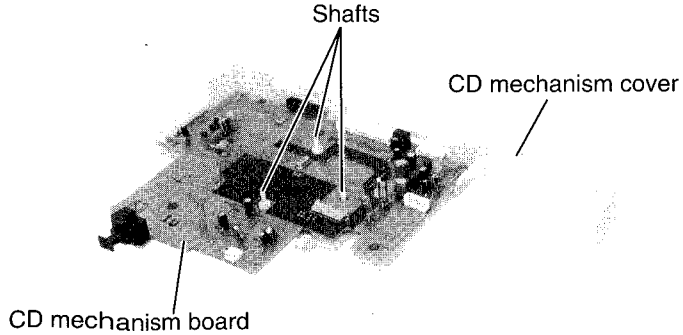


Fig.32

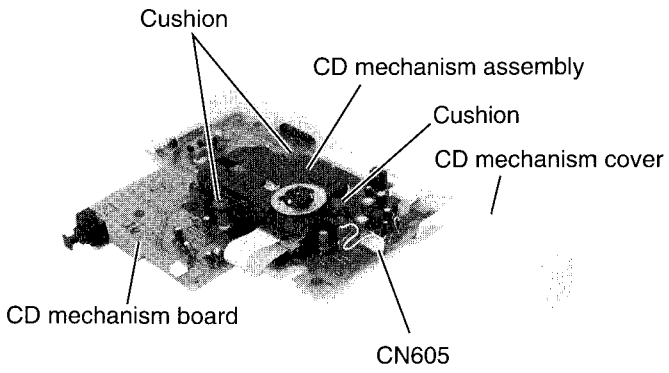


Fig.31

■Removing the jack board (See Fig.33)

- Prior to performing following procedure, remove the CD mechanism board.

1. Disconnect the harness from connector CN502 on the jack board.
2. Remove the four screws V attaching the jack board.

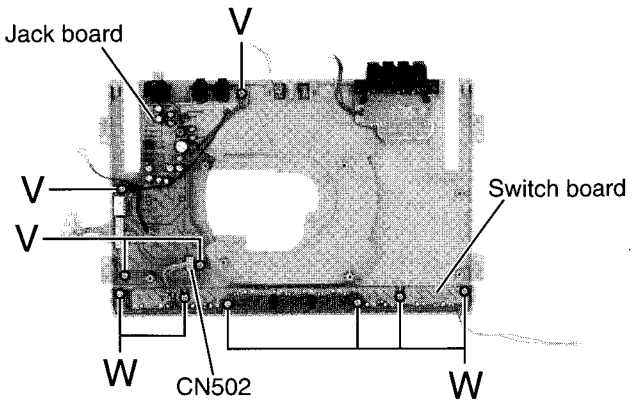


Fig.33

■Removing the switch board (See Fig.33)

- Prior to performing following procedure, remove the CD mechanism board.

1. Disconnect the harness from connector CN502 on the jack board.
2. Remove the six screws W attaching the switch board.

■Removing the LED board (See Fig.34 and 35)

1. Disconnect the harness from connector CN706 on the CD mechanism board on the underside of the CD mechanism base assembly.
2. Push inward the two tabs d attaching the LED board case and release them.
3. Pull out the LED board from the LED board case.

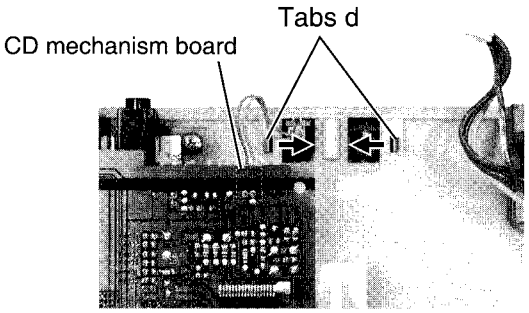


Fig.34

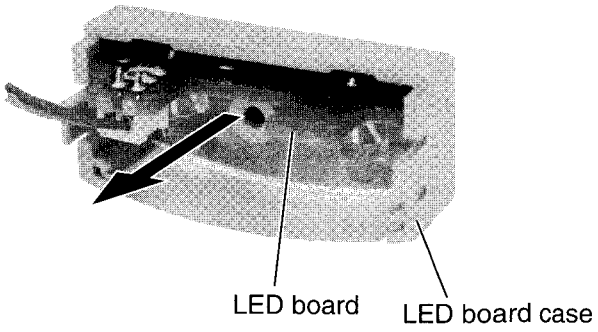


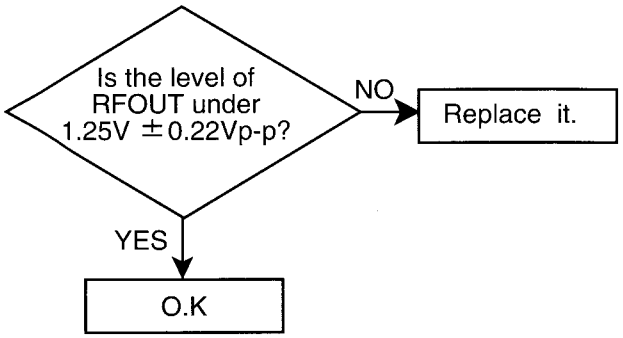
Fig.35

Maintenance of laser pickup

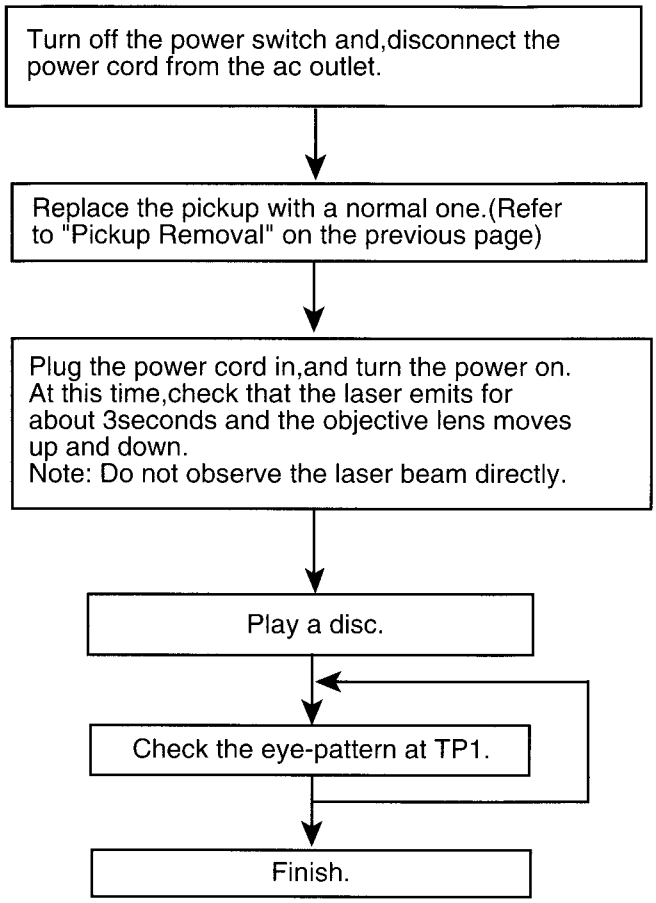
(1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.

1. The level of RF output (EFM output:amplitude of eye pattern) will below.



Replacement of laser pickup


Turn off the power switch and,disconnect the power cord from the ac outlet.
Replace the pickup with a normal one.(Refer to "Pickup Removal" on the previous page)
Plug the power cord in,and turn the power on. At this time,check that the laser emits for about 3seconds and the objective lens moves up and down.
Note: Do not observe the laser beam directly.
Play a disc.
Check the eye-pattern at TP1.
Finish.

(3) Semi-fixed resistor on the APC PC board The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value,the laser diode is almost worn out, and the laser pickup should be replaced.
If the semi-fixed resistor is adjusted while the pickup is functioning normally,the laser pickup may be damaged due to excessive current.

Flow of functional operation until TOC read

Power ON → Play Key → Slider turns REST SW ON.

Check Point
Confirm that the voltage at the pin4 of CN605 is "H"\"L"\"H".

Slider turns REST SW ON. →
Automatic tuning of TE offset →
Laser ON → Check that the voltage at the pin40 of IC603 is + 5V?
Detection of disc →
Automatic tuning of Focus offset →
Automatic measurement of Focus S-curve amplitude → Confirm that the Focus error S-cuve signal at the pin28 of IC603 is approx.2Vp-p
Disc is rotated → Confirm that the signal from pin24 IC603 is 0V as a accelerated pulse during approx.400ms.
Focus servo ON (Tracking servo ON) →
Automatic measurement of Tracking error amplitude → Confirm the waveform of the Tracking error signal. at the pin 25 of IC601 (R6009) (See fig-1)
Automatic tuning of Tracking error balance →
Automatic tuning of Focus error balance →
Automatic tuning of Focus error gain →
Automatic tuning of Tracking error gain →
TOC reading → Confirm the eys-pattern at the lead of TP602
Play a disc

■ Tracking error waveform at TOC reading

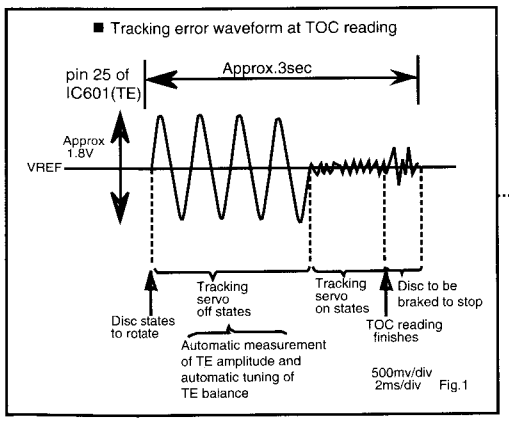
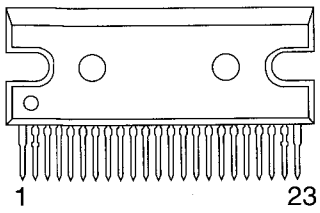


Fig.1

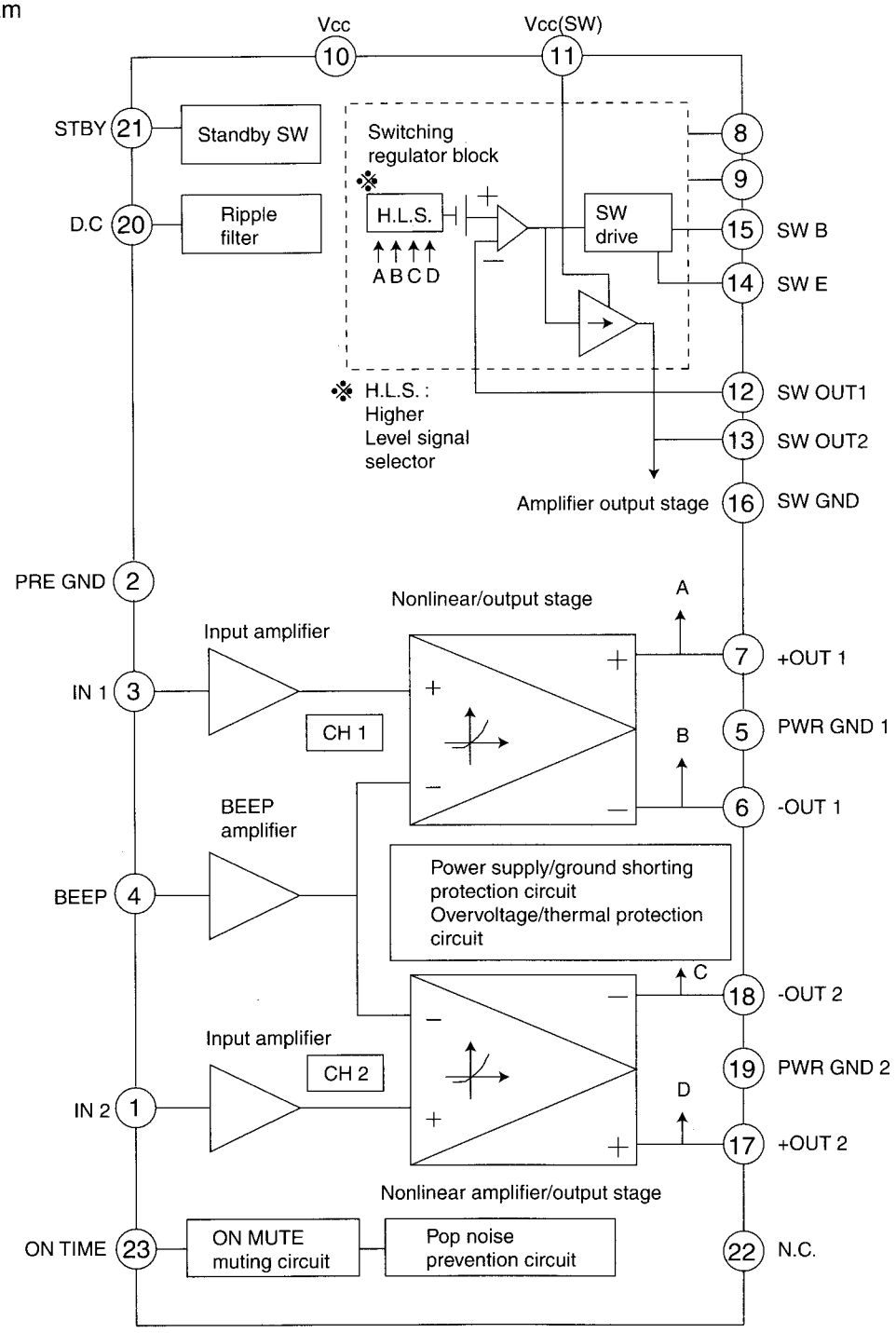
Description of major ICs

■ LA4905 (IC301) : 2ch BTL power IC

1. Pinlayput

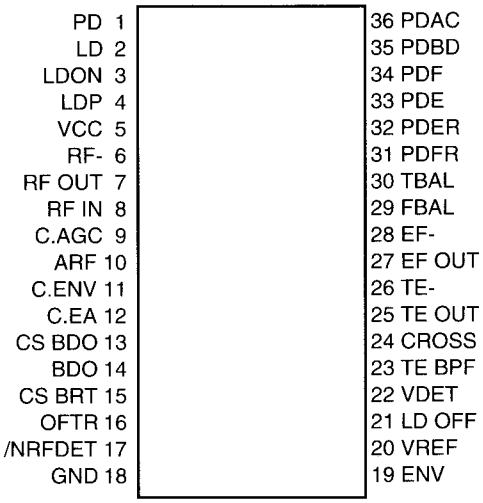


2. Block diagram

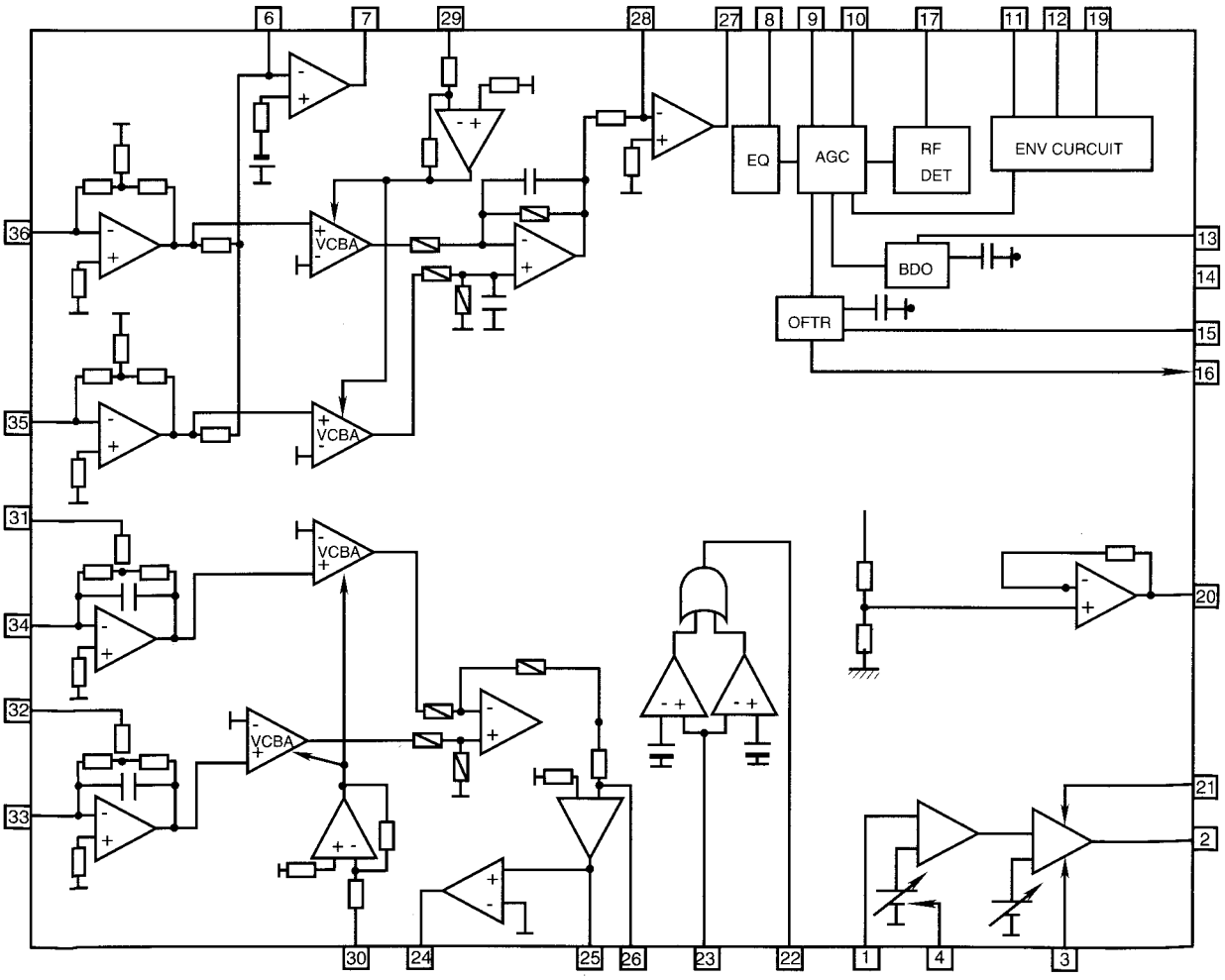


■ AN8806SB-W (IC601) : RF & Servo amp.

1.Pin layout



2.Block diagram

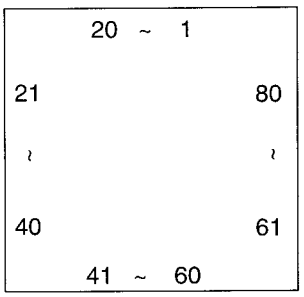


3. Pin function

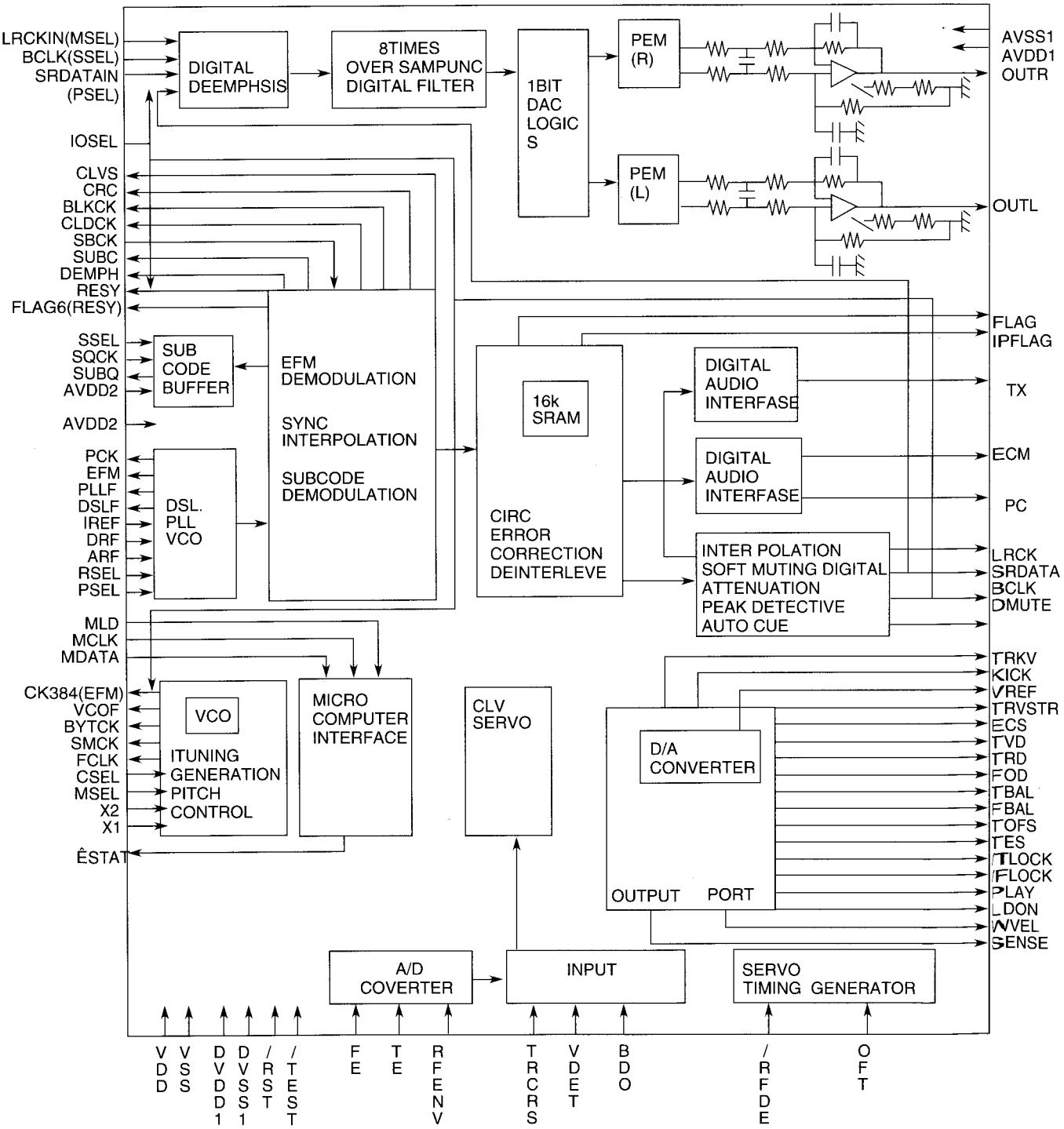
Pin No.	symbol	I/O	Function
1	PD	I	APC amp . Input terminal
2	LD	O	APC amp . Output terminal
3	LD ON	I	LD ON/OFF control terminal
4	LDP	--	Connect to GND
5	VCC	--	Power supply
6	RF-	I	RF amp . Reversing input terminal
7	RF OUT	O	RFamp . Output terminal
8	RF IN	I	AGC input terminal
9	C.AGC	I/O	AGC loop filter connection terminal
10	ARF	O	ARF output terminal
11	C.ENV	I/O	RF detection capacity connection terminal
12	C.EA	I/O	HPF-amp capacity connection terminal
13	CS BDO	I/O	Capacity connection terminal for RF discernment side envelope detection
14	BDO	O	BDO output terminal
15	CS BRT	I/O	Capacity connection terminal for RF discernment side envelope detection
16	OFTR	O	OFTR output terminal
17	/NRFDET	O	RFDET output terminal
18	GND	--	Connect to GND
19	ENV	O	3TENV output terminal
20	VREF	O	VREF output terminal
21	LD OFF	--	APC OFF control terminal
22	VDET	O	VDET output terminal
23	TE BPF	I	VDET input terminal
24	CROSS	O	CROSS output terminal
25	TE OUT	O	TE amp . Output terminal
26	TE-	I	FE amp . Reversing input terminal
27	FE OUT	O	FE amp . output terminal
28	FE-	I	FE amp . Reversing input terminal
29	FBAL	I	F.BAL control terminal
30	TBAL	I	T.BAL control terminal
31	PDFR	I/O	I-V amp conversion resistance adjustment terminal
32	PDER	I/O	I-V amp conversion resistance adjustment terminal
33	PDF	I	I-V amp input terminal
34	PDE	I	I-V amp input terminal
35	PD BD	I	I-V amp input terminal
36	PD AC	I	I-V amp input terminal

■ MN35510(IC603):Digital servo & Digital signal processer

1. Terminal Layout



2.Block Diagram

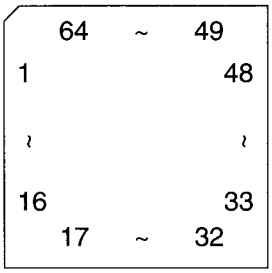


3. Description

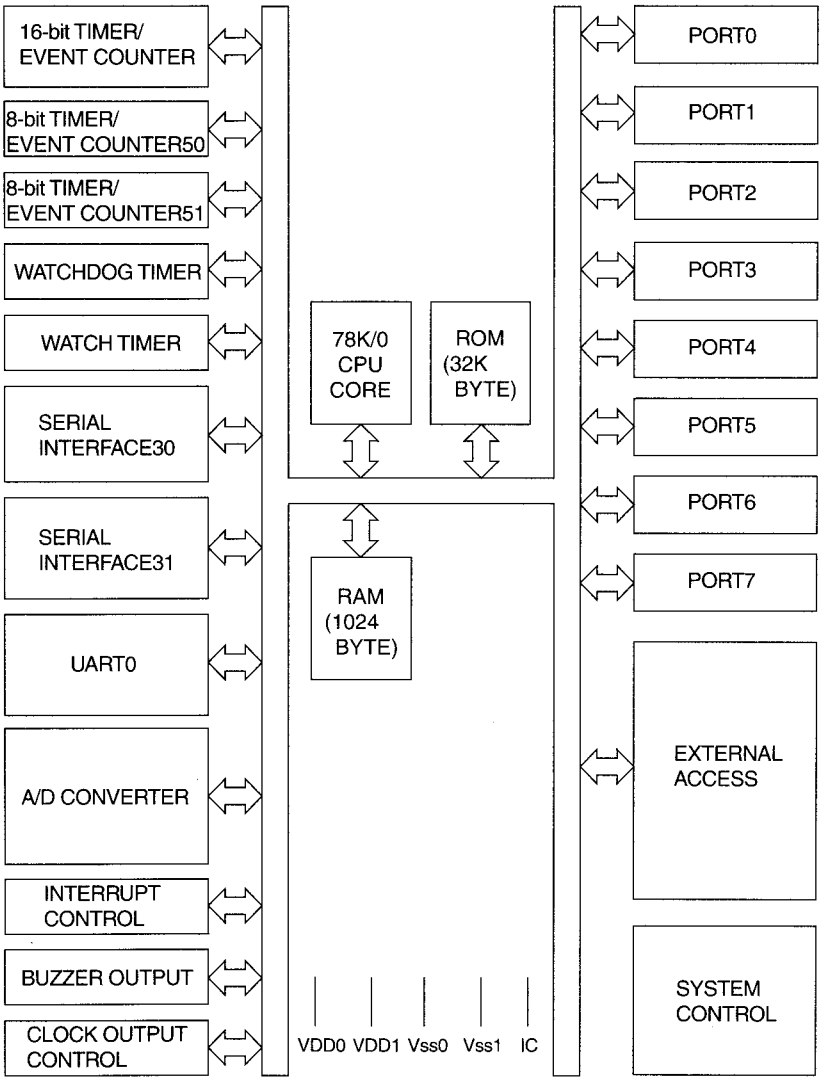
Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description
1	BCLK	O	Not used	41	TES	O	Tracking error shunt signal output(H:shunt)
2	LRCK	O	Not used	42	PLAY	—	Not used
3	SRDATA	O	Not used	43	WVEL	—	Not used
4	DVDD1	—	Power supply (Digital)	44	ARF	I	RF signal input
5	DVSS1	—	Connected to GND	45	IREF	I	Reference current input pin
6	TX	O	Digital audio interface output	46	DRF	I	Bias pin for DSL
7	MCLK	I	Micom command clock signal input (Data is latched at signal's rising point)	47	DSLF	I/O	Loop filter pin for DSL
8	MDATA	I	Micom command data input	48	PLLF	I/O	Loop filter pin for PLL
9	MLD	I	Micom command load signal input	49	VCOF	—	Not used
10	SENSE	O	Sence signal output	50	AVDD2	—	Power supply(Analog)
11	FLOCK	O	Focus lock signal output Active :Low	51	AVSS2	—	Connected to GND(Analog)
12	TLOCK	O	Tracking lock signal output Active :Low	52	EFM	—	Not used
13	BLKCK	O	sub-code - block - clock signal output	53	PCK	—	Not used
14	SQCK	I	Outside clock for sub-code Q resister input	54	PDO	—	Not used
15	SUBQ	O	Sub-code Q -code output	55	SUBC	—	Not used
16	DMUTE	—	Connected to GND	56	SBCK	—	Not used
17	STATUS	O	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)	57	VSS	—	Connected to GND(for X'tal oscillation circuit)
18	RST	I	Reset signal input (L:Reset)	58	XI	I	Input of 16.9344MHz X'tal oscillation circuit
19	SMCK	—	Not used	59	X2	O	Output of X'tal oscillation circuit
20	PMCK	—	Not used	60	VDD	—	Power supply(for X'tal cscillation circuit)
21	TRV	O	Traverse enforced output	61	BYTCK	—	Not used
22	TVD	O	Traverse drive output	62	CLDCK	—	Not used
23	PC	—	Not used	63	FLAG	—	Not used
24	ECM	O	Spindle motor drive signal (Enforced mode output) 3-State	64	IPPLAG	—	Not used
25	ECS	O	Spindle motor drive signal (Servo error signal output)	65	FLAG	—	Not used
26	KICK	O	Kick pulse output	66	CLVS	—	Not used
27	TRD	O	Tracking drive output	67	CRC	—	Not used
28	FOD	O	Focus drive output	68	DEMPH		Not used
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)	69	RESY	—	Not used
30	FBAL	O	Focus Balance adjust signal output	70	IOSEL	—	pull up
31	TBAL	O	Tracking Balance adjust signal output	71	TEST	—	pull up
32	FE	I	Focus error signal input(Analog input)	72	AVDD1	—	Power supply(Digital)
33	TE	I	Tracking error signal input(Analog input)	73	OUT L	O	Lch audio output
34	RF ENV	I	RF envelope signal input(Analog input)	74	AVSS1	—	Connected to GND
35	VDET	I	Vibration detect signal input(H:detect)	75	OUT R	O	Rch audio output
36	OFT	I	Off track signal input(H:off track)	76	RSEL	—	pull up
37	TRCRS	I	Track cross signal input	77	CSEL	—	Connected to GND
38	RFDET	I	RF detect signal input(L:detect)	78	PSEL	—	Connected to GND
39	BDO	I	BDO input pin(L:detect)	79	MSEL	—	Connected to GND
40	LDON	O	Laser ON signal output(H:on)	80	SSEL	—	Pull up

■ UPD780024AGKA11 (IC701) : CPU

1. Pin layout



2. Block diagram

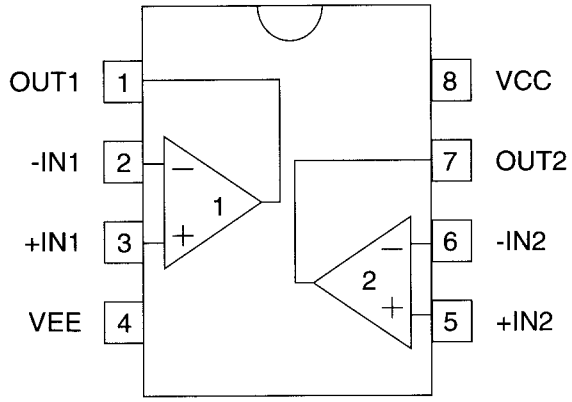


3. Pin function

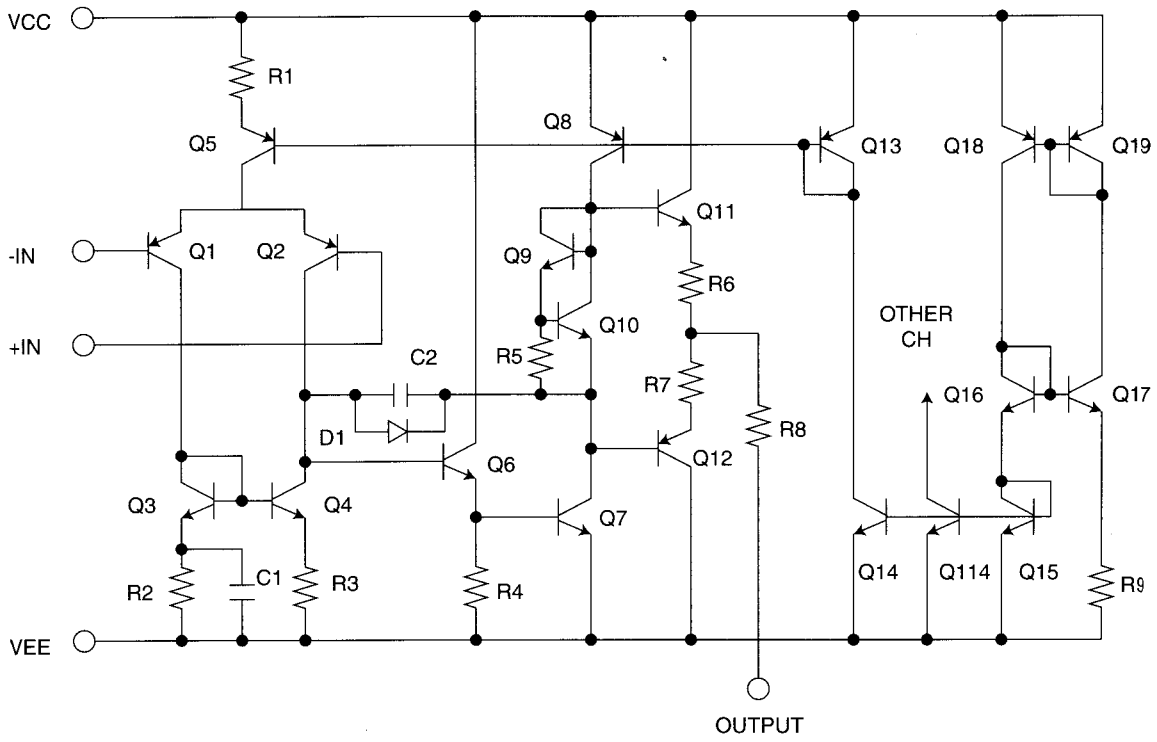
Pin No.	Symbol	I/O	Function
1	MT0	O	CD door motor control signal 0 output
2	MT1	O	CD door motor control signal 1 output
3	MTS	O	Motor speed control output (L:Normal, H:Slow)
4	BLCTL	O	Back light power supply control output
5	AHB	O	AHB ON/OFF control signal output (L:ON, H:OFF)
6	SMUTE	O	System mute control signal output
7	TUST	O	Tuner control strove output
8	CDLED	O	CD LED control signal output (L:OFF, H:ON)
9	VSS0	-	Ground at port section
10	VDD0	-	Power supply at port section
11	MPX	I	Stereo indicator control signal input (L:Stereo)
12	RDSDI	I	RDS data input
13	DRMUTE	O	Driver mute output
14	SCD	I	Voltage detection for safety of CD
15	TUDATA(I)	I	Tuner control data input
16	TUDATA(O)	O	Tuner control data output
17	TUCK	O	Tuner control clock output
18	SUBQ	I	CD control Q code input
19	XRST	O	CD control reset signal output
20	SQCK	O	CD control Q code clock signal output
21	MLD	O	CD control command load signal output
22	MDATA	O	CD control command data signal output
23	MCLK	O	CD control command clock signal output
24	VDD1	-	Power supply without port section
25	AVSS	-	Ground of A/D converter
26	STAT	I	CD control status signal input
27	REST	I	CD rest switch detection signal input
28	KEY1	I	Main body top section tact switch detection signal input
29	KEY2	I	Main body top section tact switch detection signal input
30	KEY3	I	Main body front section tact switch detection signal input
31	SAFETY	I	Voltage detection for safety
32	LDCK	I	CD door motor lock detection signal input
33	VERSION	I	Version detection
34	AVREF	I	Reference voltage input for A/D converter
35	AVDD	-	Analog power supply for A/D converter
36	RESET	I	System reset signal input
37	XT2	-	Sub clock
38	XT1	I	Sub clock signal input 32.768kHz
39	IC	I	Connect to VSS0 or VSS1
40	X2	-	Main clock
41	X1	I	Main clock signal input 4.19MHz
42	VSS1	-	Ground without port section
43	REM	I	Remote controller signal input
44	RDSCK	I	RDS clock signal input
45	XKILL	O	Sub clock OSC control signal output
46	BEAT	O	Main clock shift control signal output
47	BUP	I	Back up detection signal input
48	+BCTL	O	Power supply control at back up operating
49	VDATA	O	BD3861FS (VOL & FUNC IC) control data signal output
50	VCLK	O	BD3861FS (VOL & FUNC IC) control clock signal output
51	DOOR1	I	Cd door position detection switch input
52	DOOR2	I	CD door position detection switch input
53	DOOR3	I	CD door position detection switch input
54	LOMUTE	O	LINE OUT muting control signal output
55	RS	O	LCD driver control resistor select signal output
56	E	O	LCD driver control enable signal output
57	D84	O	LCD driver control data bus signal output
58	D85	O	LCD driver control data bus signal output
59	D86	O	LCD driver control data bus signal output
60	D87	O	LCD driver control data bus signal output
61	DIMMER	O	Back light DIMMER control signal output
62	POUT	O	Power supply control signal output for amp section
63	FTU	O	Power supply control signal output for TUNER function
64	FCD	O	Power supply control signal output for CD function

■BA15218F-XE (IC102) : Dual ope. amp.

1. Pin layout

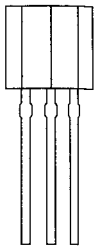


2. Block diagram

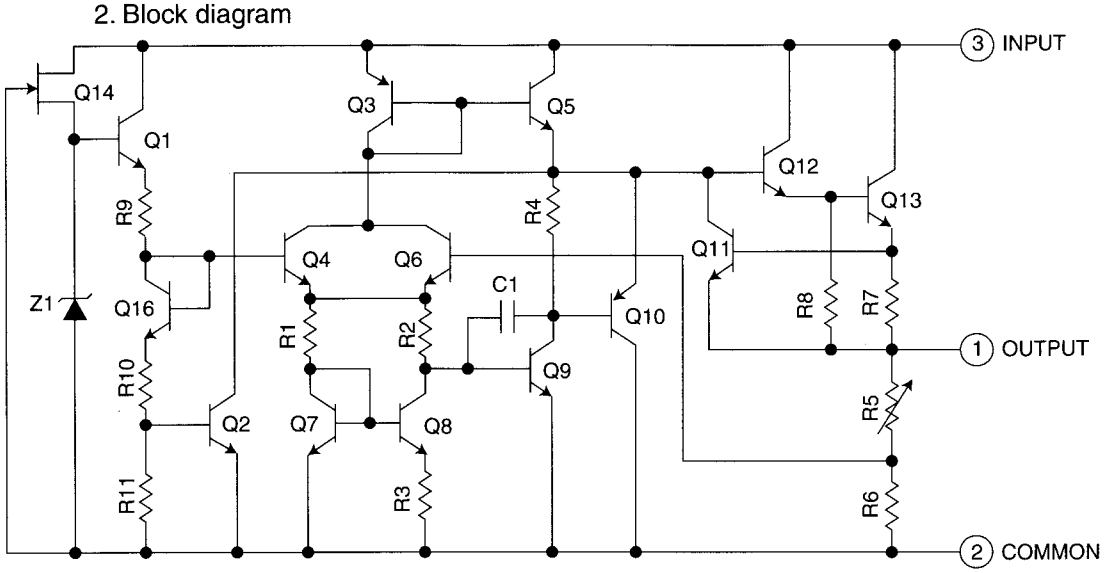


■ KIA78S06P-T (IC702) : Regulator

1. Pin layout

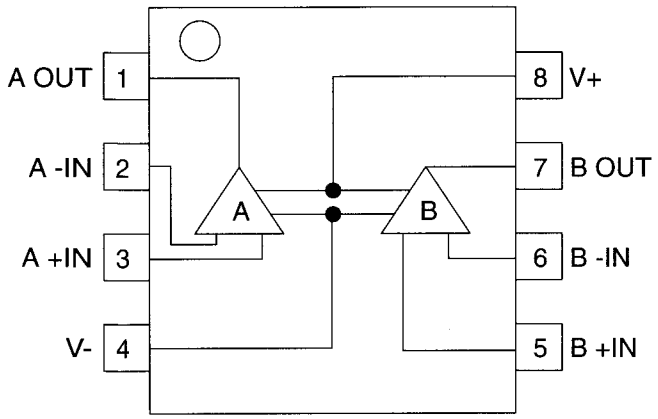


2. Block diagram



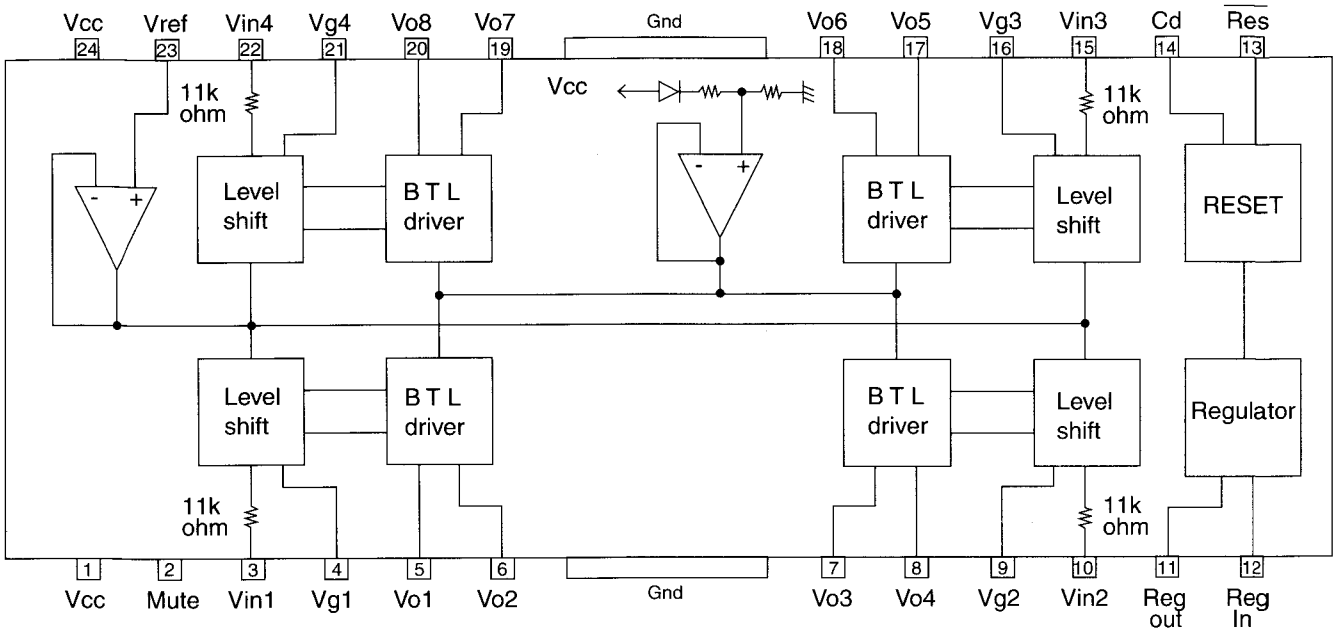
■ NJM4580D-D (IC101) : Dual ope amp.

1. Pin layout & Block diagram



■ LA6541-X (IC602) : Servo driver

1. Pin Layout & Block Diagram

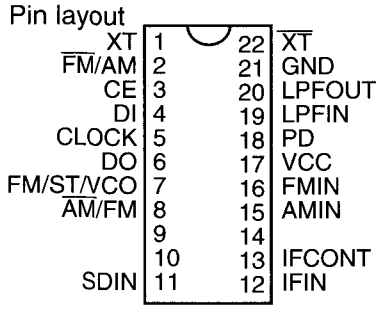


2. Pin functions

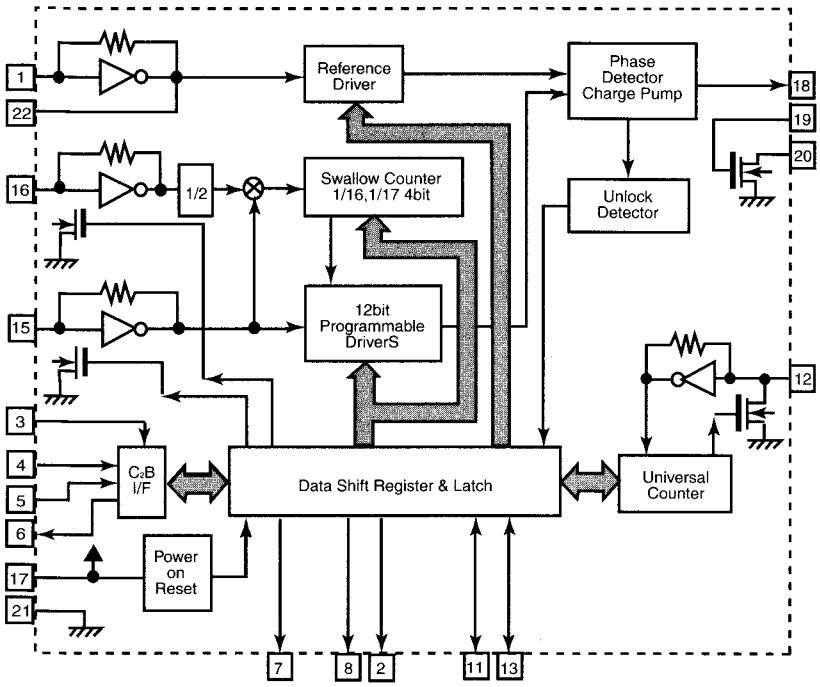
Pin No.	Symbol	Function
1	Vcc	Power supply (Shorted to pin 24)
2	Mute	All BTL amplifier outputs ON/OFF
3	Vin1	BTL AMP 1 input pin
4	Vg1	BTL AMP 1 input pin (For gain adjustment)
5	Vo1	BTL AMP 1 input pin (Non inverting side)
6	Vo2	BTL AMP 1 input pin (Inverting side)
7	Vo3	BTL AMP 2 input pin (Inverting side)
8	Vo4	BTL AMP 2 input pin (Non inverting side)
9	Vg2	BTL AMP 2 input pin (For gain adjustment)
10	Vin2	BTL AMP 2 input pin
11	Reg Out	External transistor collector (PNP) connection. 5V power supply output
12	Reg In	External transistor (PNP) base connection
13	Res	Reset output
14	Cd	Reset output delay time setting (Capacitor connected externally)
15	Vin3	BTL AMP 3 input pin
16	Vg3	BTL AMP 3 input pin (For gain adjustment)
17	Vo5	BTL AMP 3 output pin (Non inverting side)
18	Vo6	BTL AMP 3 output pin (Inverting side)
19	Vo7	BTL AMP 4 output pin (Inverting side)
20	Vo8	BTL AMP 4 output pin (Non inverting side)
21	Vg4	BTL AMP 4 output pin (For gain adjustment)
22	Vin4	BTL AMP 4 output pin
23	Vref	Level shift circuit's reference voltage application
24	Vcc	Power supply (Shorted to pin 1)

■ LC72136N (IC2) : PLL frequency synthesizer

1. Pin layout



2. Block diagram

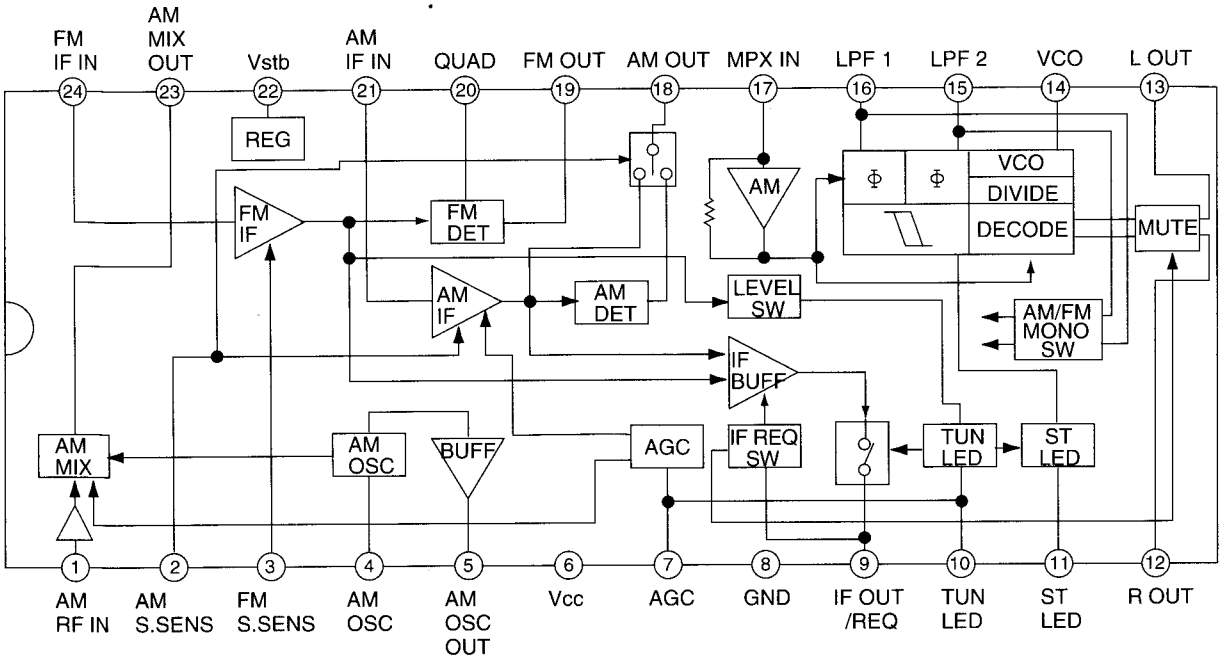


3. Pin function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75kHz)	12	IFIN	I	IF counter signal input
2	$\overline{FM}$/AM	O	LOW:FM mode	13	IFCONT	O	IF signal output
3	CE	I	When data output/input for 4pin(input) and 6pin(output): H	14		-	Not use
4	DI	I	Input for receive the serial data from controller	15	AMIN	I	AM Local OSC signal output
5	. CLOCK	I	Sync signal input use	16	FMIN	I	FM Local OSC signal input
6	DO	O	Data output for Controller Output port	17	VCC	-	Power suplly(VDD=4.5-5.5V) When power ON:Reset circuit move
7	FM/ST/VCO	O	"Low": MW mode	18	PD	O	PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance)
8	$\overline{AM}$/FM	O	Open state after the power on reset	19	LPFIN	I	Input for active lowpassfilter of PLL
9	LW	I/O	Input/output port	20	LPFOUT	O	Output for active lowpassfilter of PLL
10	MW	I/O	Input/output port	21	GND	-	Connected to GND
11	SDIN	I/O	Data input/output	22	$\overline{XT}$	I	X'tal oscillator(75KHz)

■TA2057N (IC1) : FM/AM IF AMP & Detector

1.Block Diagrams

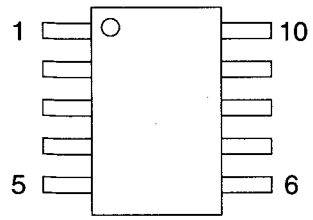


2.Pin Function

Pin No.	I/O	Symbol	Function	Pin No.	I/O	Symbol	Function
1	I	AM RF	AMRF signal input	13	O	Lch OUT	Output Lch
2		AM S.SENS		14	O	VCO	Voltage controlled terminal
3		FM S.SENS		15	O	LPF2	When voltage of terminal is MONO at "H" and ST at "L"
4	-	AM OSC	AM local oscillation circuit				
5	O	AM OSC OUT	AM local oscillation signal output	16	O	LPF1	When voltage of terminal is AM at "H" and FM at "L"
6	-	VCC	Power supply				
7	I	AGC	AGC voltage input terminal	17	I	MPX IN	Multi plex signal input
8	-	GND	Connect to GND	18	O	AM OUT	AM detection signal output
9	O	IF OUT	IF REQ signal output to IC2	19	O	FM OUT	FM detection signal output
10	O	TU IND	Indicator drive output when tuning	20	I	FM QUAD	Bypass to FMIF
11	O	ST IND	Stereo indicator output "H"mono . "L"stereo	21	I	AM IF IN	Input of AMIF signal
				22	-	Vst	Fixed voltage output terminal
12	O	Rch OUT	Output Rch	23	O	AM MIX OUT	Output terminal for AM mixer
				24	I	FM IF IN	Input of FMIF signal

■ TA8409F-W (IC108) : Bridge driver

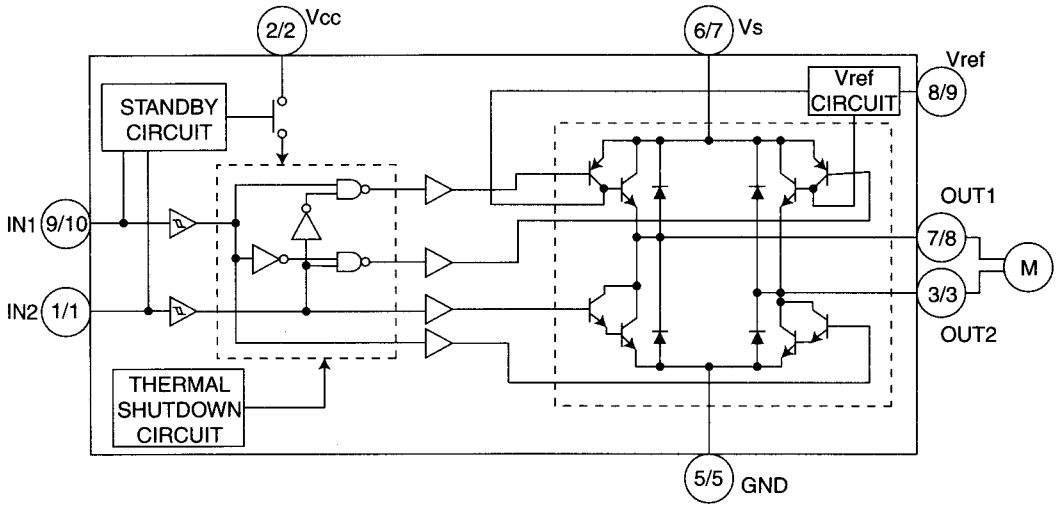
1. Pin layout



2. Pin function

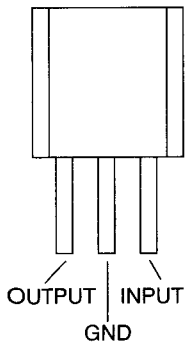
Pin No.	SYMBOL	FUNCTION
1	IN2	INput terminal
2	Vcc	Supply voltage terminal for logic
3	OUT2	Output terminal
4	NC	Non connection
5	GND	GND terminal
6	NC	Non connection
7	Vs	Supply voltage terminal for motor driver
8	OUT1	Output terminal
9	Vref	Reference voltage terminal for control circuit
10	IN1	Input terminal

3. Block diagram

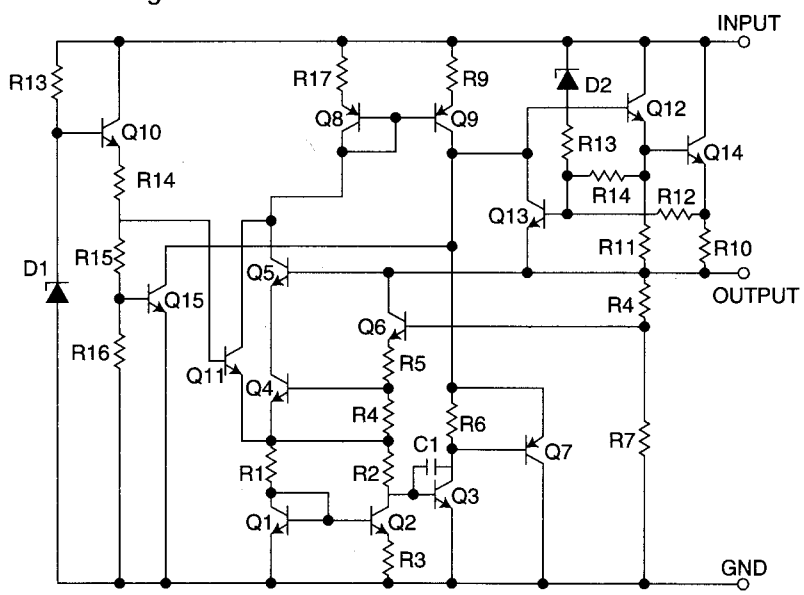


■ UPD78L5J-T (IC191) : Regulator

1. Pin layout

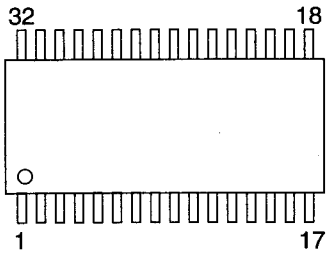


2. Block diagram

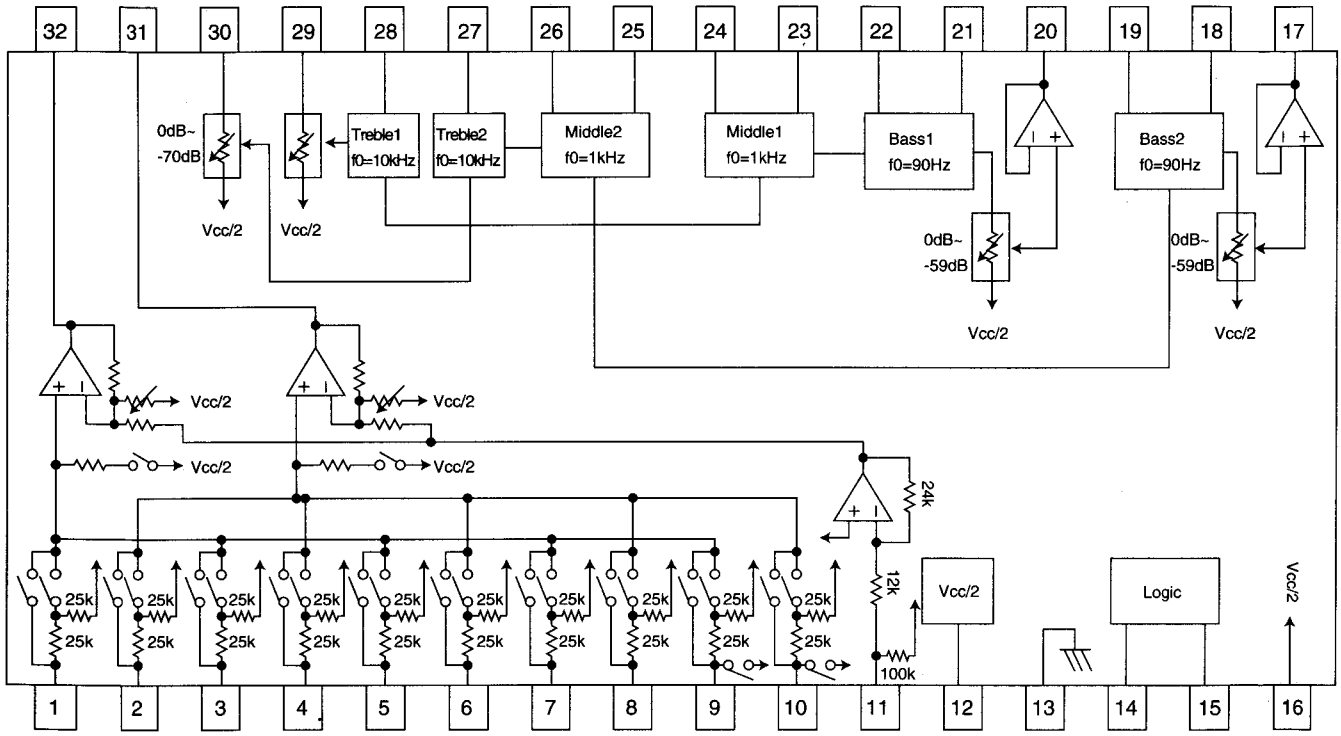


■BD3861FS-X (IC501) : Audio sound control

1. Pin layout



2. Block diagram

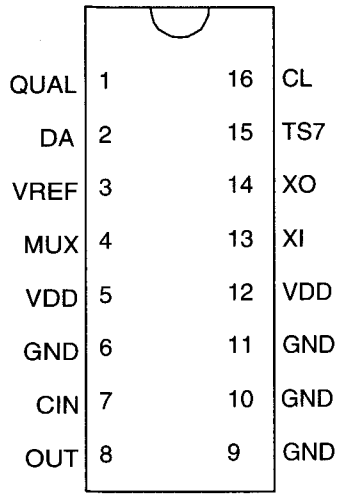


3. Pin function

Pin No.	Symbol	Function		Symbol	Function
1	A1	CH1 input pin A	17	OUT2	CH2 output pin
2	A2	CH2 input pin A	18	BASS21	CH2 bass filter setting pin
3	B1	CH1 input pin B	19	BASS22	CH2 bass filter setting pin
4	B2	CH2 input pin B	20	OUT1	CH1 output pin
5	C1	CH1 input pin C	21	BASS11	CH1 bass filter setting pin
6	C2	CH2 input pin C	22	BASS12	CH1 bass filter settingpin
7	D1	CH1 input pin D	23	MID11	CH1 middle filter setting pin
8	D2	CH2 input pin D	24	MID12	CH1 middle filter setting pin
9	E1	CH1 input pin E	25	MID21	CH2 middle filter setting pin
10	E2	CH2 input pin E	26	MID22	CH2 middle filter setting pin
11	MIC	Microphone input pin	27	TRE2	CH2 treble filter setting pin
12	FIL	Filter pin	28	TRE1	CH1 treble filter setting pin
13	GND	Ground pin	29	VOL1	CH1 input volume input pin
14	DATA	Serial data latch receiving pin	30	VOL2	CH2 input volume input pin
15	CLK	Serial clock receiving pin	31	GOUT2	CH2 input gain output pin
16	Vcc	Power supply pin	32	GOUT1	CH1 input gain output pin

■ BU1923(IC4) : RDS detector

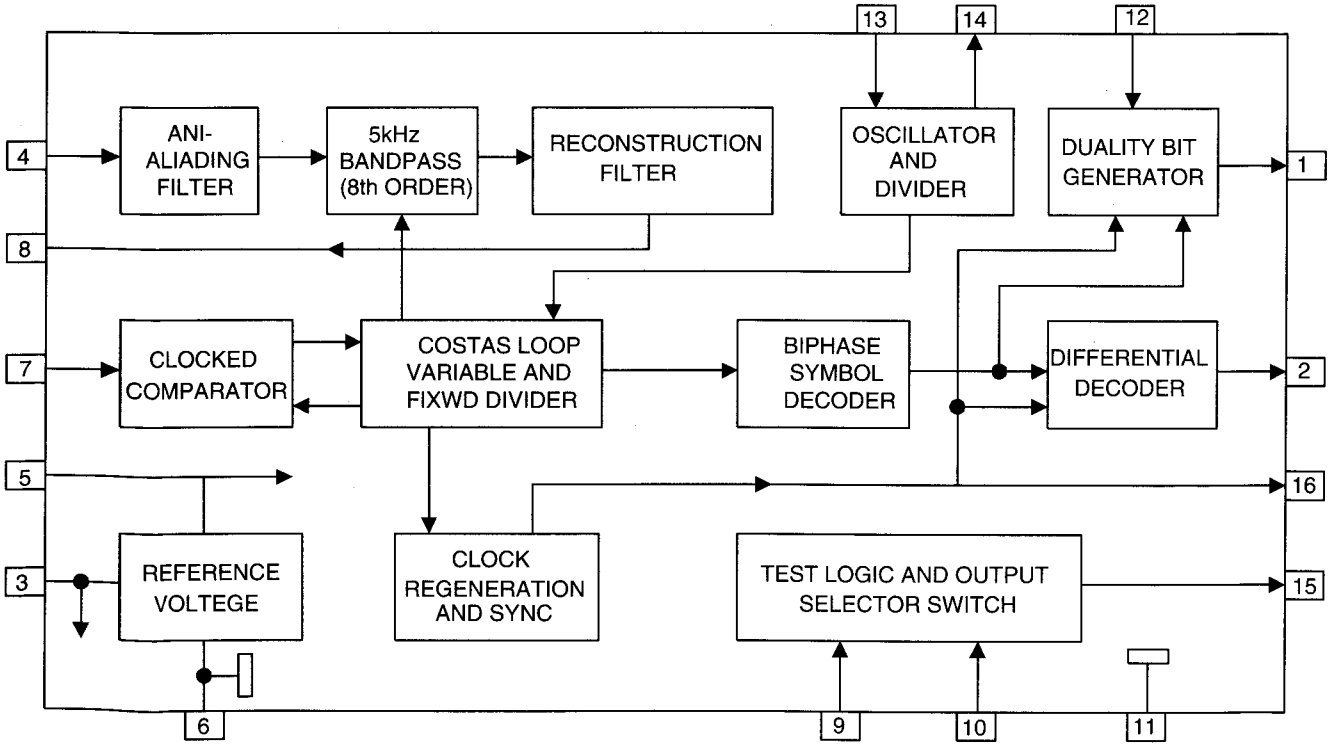
1.Terminal Layout



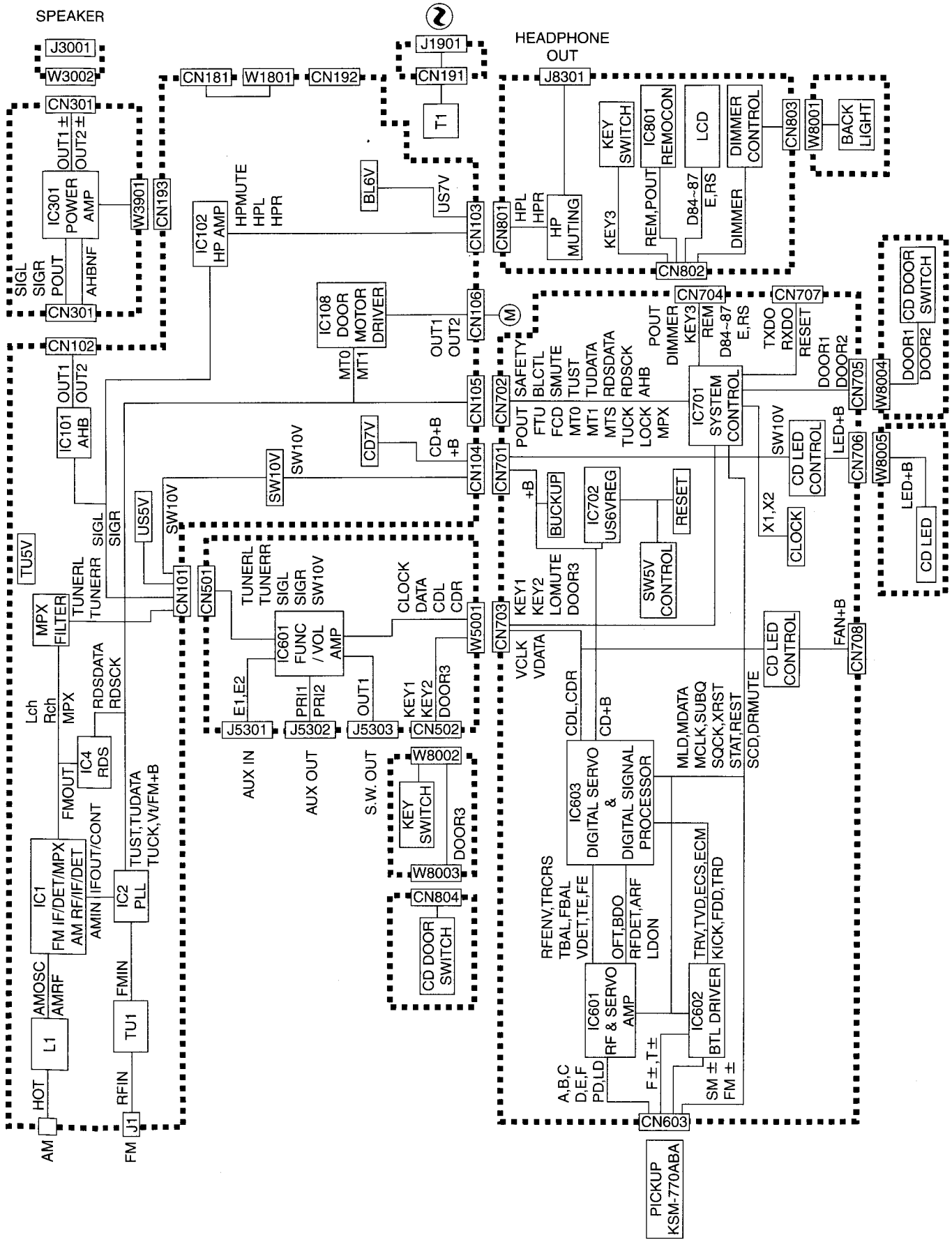
2.Pin Function

Pin No.	Symbol	I/O	Function
1	QUAL	--	Non connection
2	DA	O	RDS data output
3	VREF	O	Reference voltage output
4	MUX	I	Multiplex signal input
5	VDD	--	+5Vsupply voltage for analog
6	GND	--	Ground for analog part(0V)
7	CIN	I	Sub carrier output of reconstruction filter
8	OUT	O	Ground for digital part(0V)
9	GND	--	Ground for digital part(0V)
10	GND	--	Ground for digital part(0V)
11	GND	--	Ground for digital part(0V)
12	VDD	--	+5Vsupply voltage for digital part
13	XI	I	Oscillator input
14	XO	O	Oscillator output
15	TS7	--	Non connection
16	CL	O	RDS clock output

3.Block Diagram

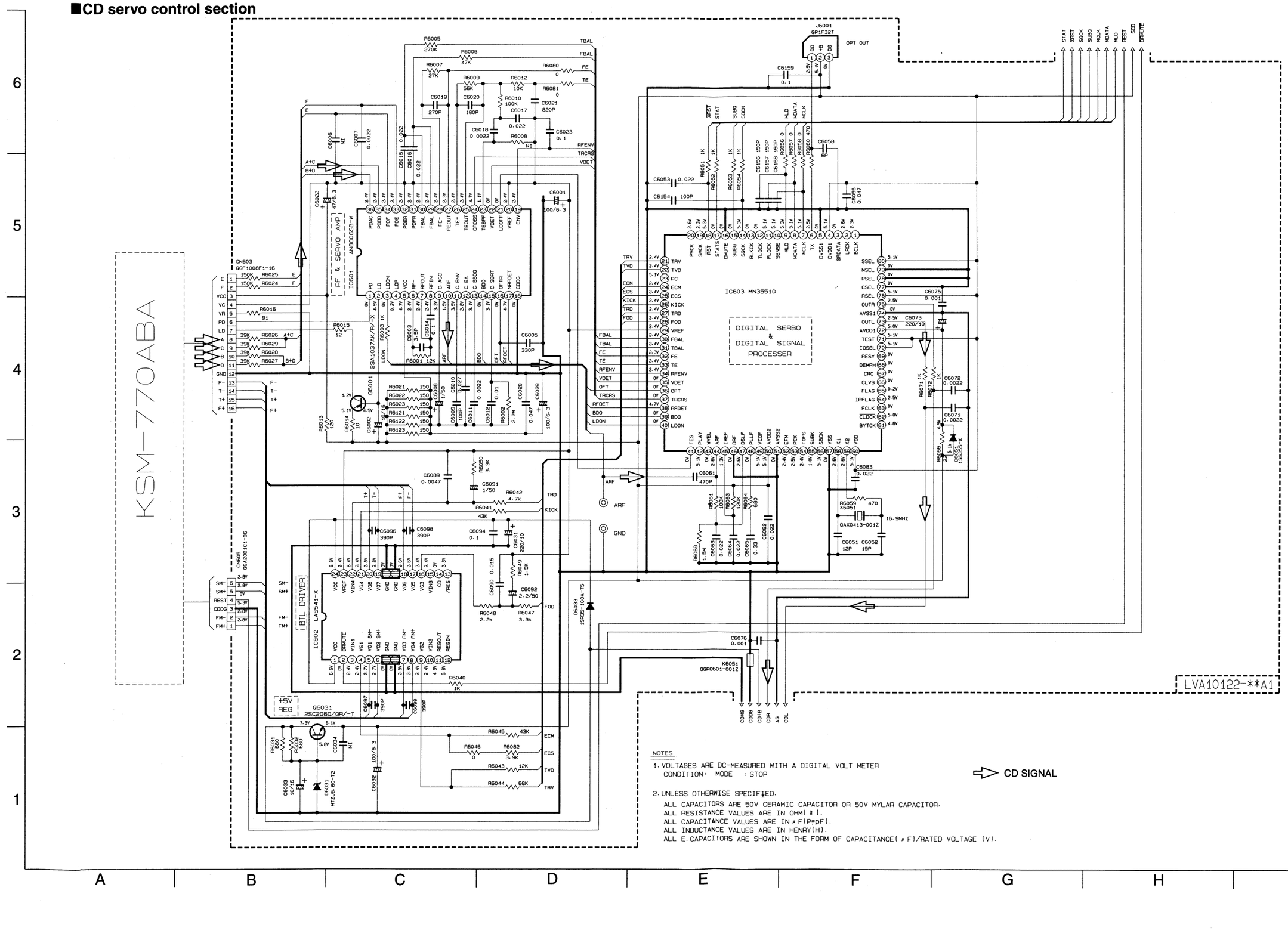


Block diagram

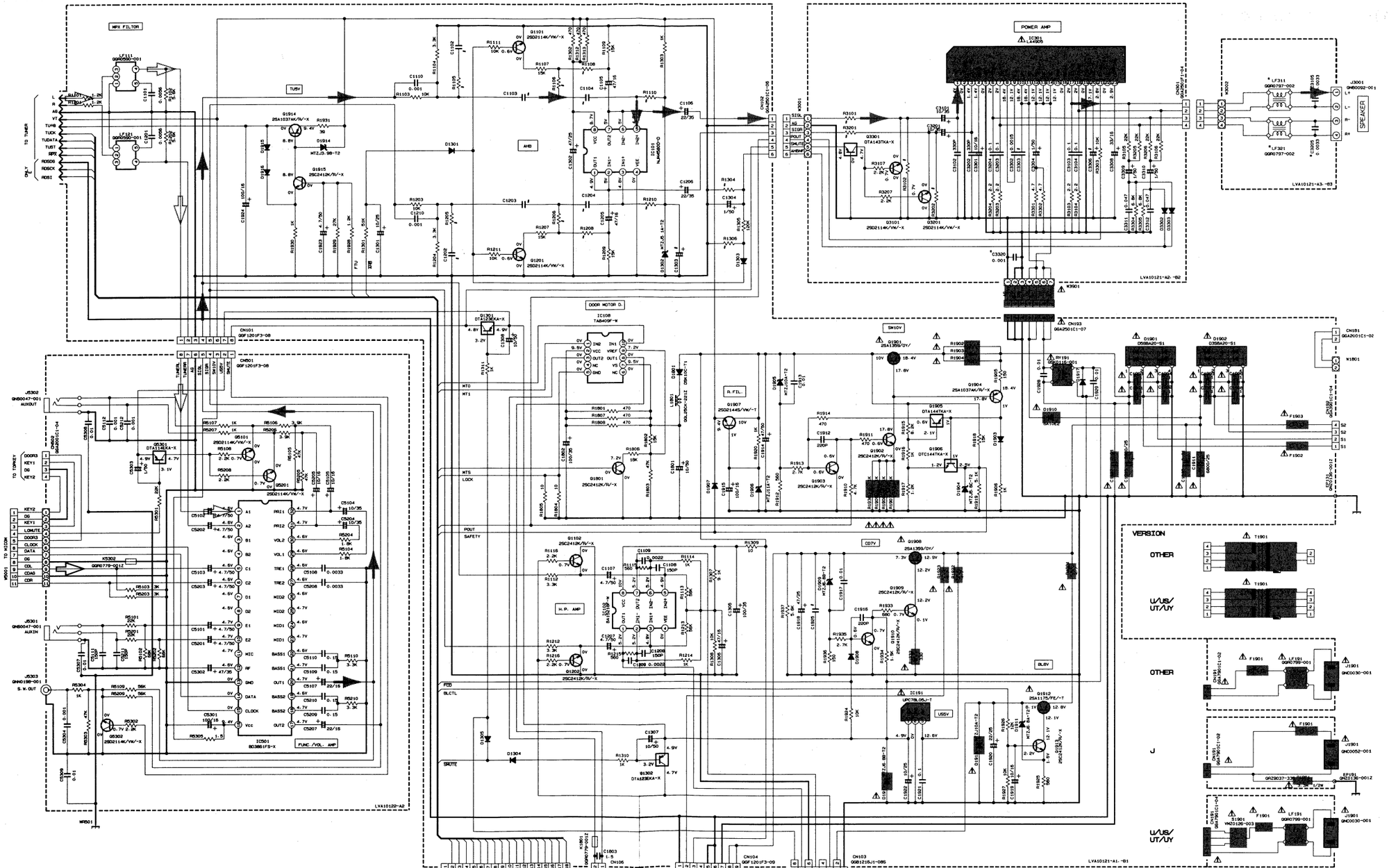


Standard schematic diagrams

■CD servo control section



■ Power supply & Main circuit section



NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- CD STOP MODE
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(±).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN, F(P=pF).
   ALL INDUCTANCE VALUES ARE IN, H(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (µF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133
3. #MARKS ARE B/E/EN/EV/EE/UB VERSION ONLY
   OTHER VERSIONS ARE OPEN OR SHORT

TABLE1 DIGITAL TRANSISTOR

DTA123EKA DTA114EKA DTA143TKA DTA144TKA DTC144TKA

#Marks

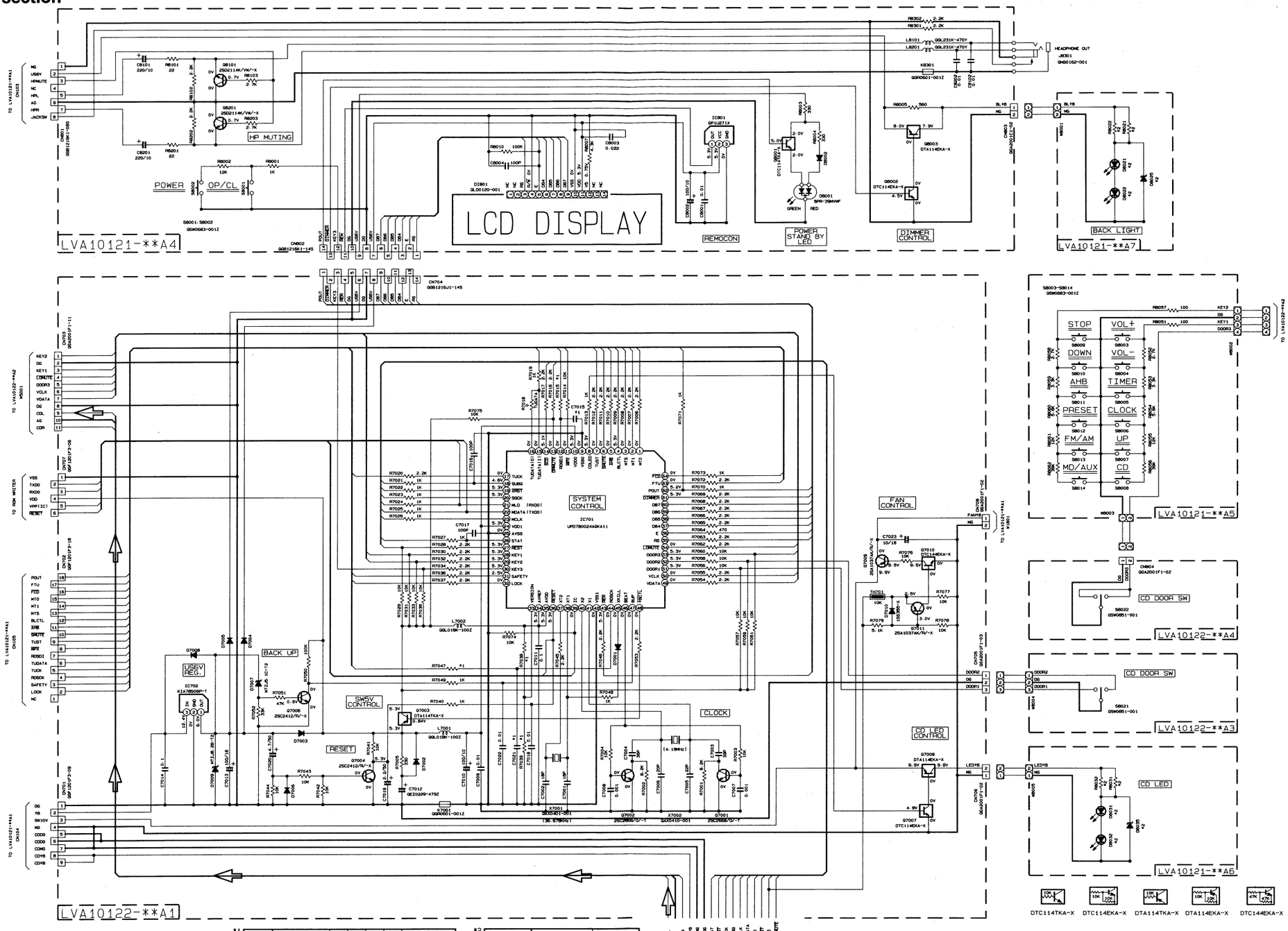
	R1105 R1606	C1109 C1602	C1103 C1603	C1104 C1604	R1106 R1206	R1108 R1608	R1110 R1210	R1304	R1306	R1101 R3001	R1102 R3003	C1303	C1303	C3305	C1925
S05	3.9K	0.15	0.082	0.082	1.5K	3K	180K	150K	51K	5.6K	5.6K	22/35	0.01	100/35	0.01
S07	2.7K	0.22	0.056	0.056	3.9K	4.3K	220K	220K	56K	4.3K	10K	↑	↑	↑	↑
S09	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	47/25	0.1	47/25	0.022

	T1901	F1901	F1902	F1903
J	GQT0286-002	GMF51N2-1R0-J1	GMF51U1-6R0-J1	GMF51U1-4R0-J1
B/E/EN EV/EE	GQT0286-003	GMF51E2-R50-J1	GMF51E2-5R0-J1	GMF51E2-3R15-J1
U/AUS/UB UT/UY	GQT0286-004	GMF51E2-1R0-J1	↑	↑
A	GQT0286-005	GMF51E2-R50-J1	↑	↑
UF /UP	GQT0286-006	↑	↑	↑

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

TUNER SIGNAL
CD SIGNAL
MAIN SIGNAL

■System control section



DTC114TKA-X DTC114EKA-X DTA114TKA-X DTA114EKA-X DTC144EKA-X

NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- CD STOP AT AC SUPPLY
   VOL:16 BASS:0 TREBLE:0 AHB:ON DIMMER:OFF
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/10W ±5% MG RESISTOR.
   ALL RESISTANCE VALUES ARE IN Ω×M(1Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133-T2

*1

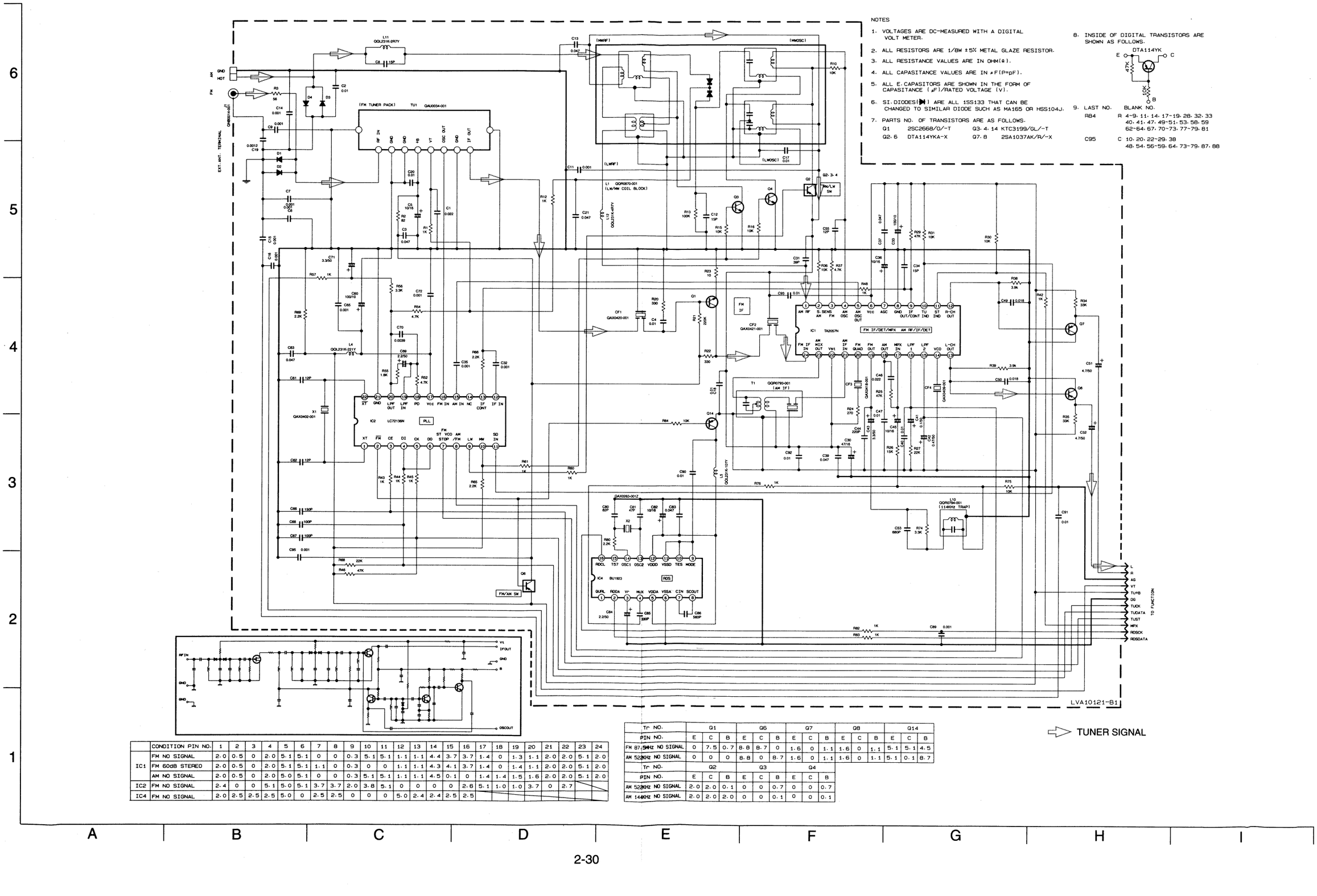
	U/US/UT/UP/UF	UY	J	EE	A	B/E/EN/EV/UB
R7038	27K	82K	47K	15K	15K	10K
R7039	5.6K	27K	33K	15K	20K	-
R7015	-	-	-	1K	-	1K
C7015	-	-	-	100P	-	100P
R7047	-	-	-	1K	-	1K
C7021	-	-	-	100P	-	100P

*2

	FS-SD5(A)/7(A)	FS-SD9(A)
D8021, D8022	SELU1E50CM	TLYH156P
D8025	MTZJ10C-T2	-
R8021, R8022	100	390
D8031, D8032	SELU1E56BM	TLYH156P
D8035	MA3100/M/-X	-
R8031, R8032	430	560

FS-SD5R/FS-SD7R/FS-SD9R

■ Tuner section for B/E/EN/EV/UB version

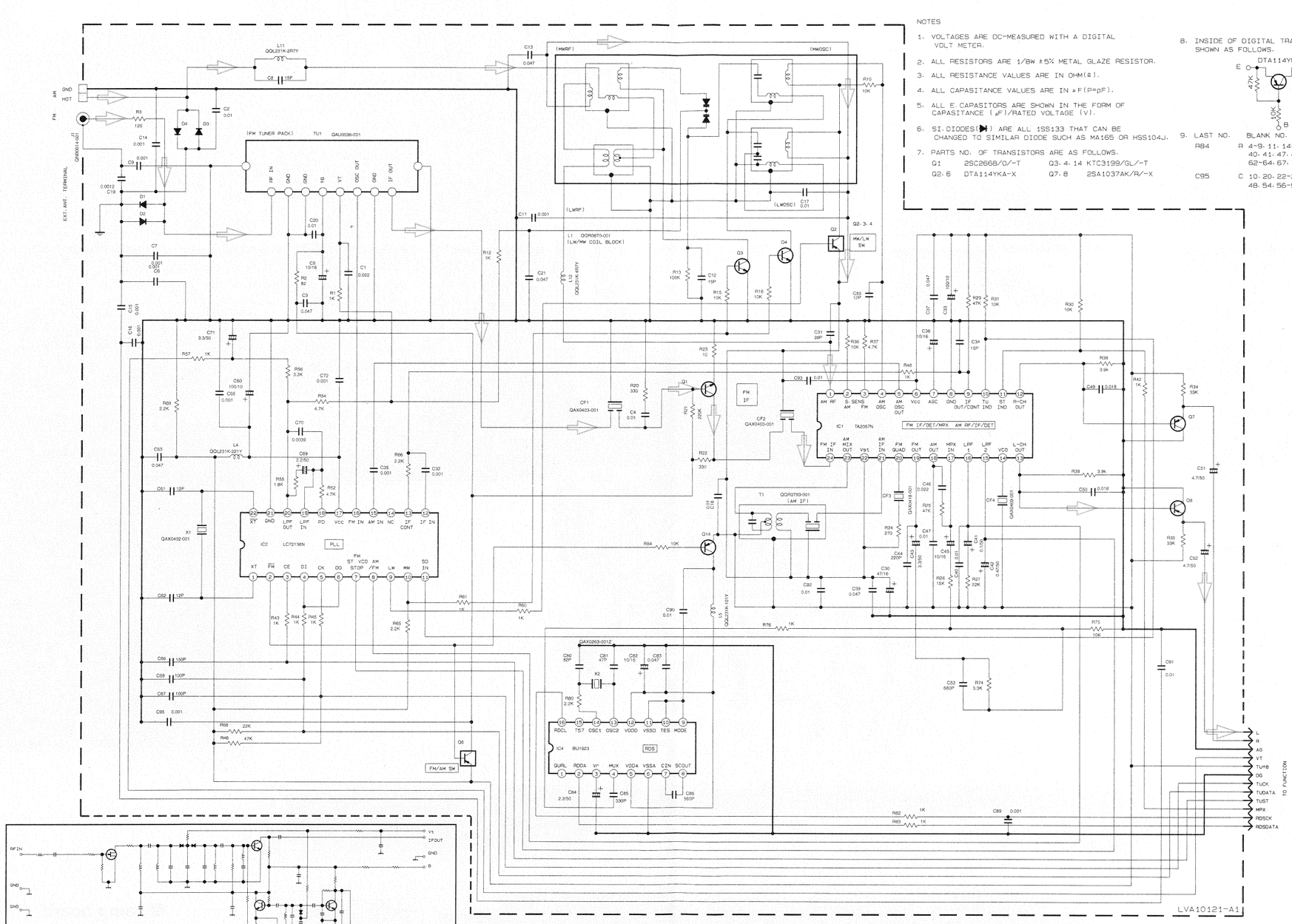

NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
6. SI.DIODES(▶|) ARE ALL 1SS133 THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q1 2SC2668/O/-T Q3. 4. 14 KTC3199/GL/-T
Q2. 5 DTA114YKA-X Q7. 8 2SA1037AK/R/-X
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.
DTA114YK
9. LAST NO. BLANK NO.
R84 R 4-9. 11. 14. 17-19. 28. 32. 33 40. 41. 47. 49-51. 53. 58. 59 62-64. 67. 70-73. 77-79. 81
C95 C 10. 20. 22-29. 38 48. 54. 56-59. 64. 73-79. 87. 88
(FM TUNER PACK) TU1 QAU0034-001
L1 QQR0870-001 (LW/MW COIL BLOCK)
L11 QQL231K-2R7Y
L12 QQL231K-4R7Y
L4 QQL231K-221Y
L5 QQL231K-101Y
L10 QQR0794-001 (11.40KHz TRAP)
T1 QQR0793-001 (AM IF)
CF1 QAX0420-001
CF2 QAX0421-001
CF3 QAX0419-001
CF4 QAX0406-001
X1 QAX0402-001
X2 QAX0263-001Z
IC1 TA2057N FM IF/DET/MPX AM RF/IF/DET
IC2 LC72136N PLL
IC4 BU1923 RDS
FM/AM SW
TO FUNCTION
LVA10121-B1
TUNER SIGNAL

	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.5	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.1	2.0
IC2	FM NO SIGNAL	2.4	0	0	5.1	5.0	5.1	3.7	3.7	2.0	3.8	5.1	0	0	0	0	2.6	5.1	1.0	1.0	3.7	0	2.7		
IC4	FM NO SIGNAL	2.0	2.5	2.5	2.5	5.0	0	2.5	2.5	0	0	0	5.0	2.4	2.4	2.5	2.5								

Tr NO.	Q1			Q5			Q7			Q8			Q14		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
FM 87.5MHz NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1	5.1	5.1	4.5
AM 522KHz NO SIGNAL	0	0	0	8.8	0	8.7	1.6	0	1.1	1.6	0	1.1	5.1	0.1	8.7

Tr NO.	Q2			Q3			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B
AM 522KHz NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7
AM 144KHz NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1

■ Tuner section for EE version


NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
6. SI.DIODES(▶|) ARE ALL 1SS133 THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q1 2SC2668/O/-T Q3.4.14 KTC3199/GL/-T
Q2.6 DTA114YKA-X Q7.8 2SA1037AK/R/-X
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.
DTA114YK
9. LAST NO. BLANK NO.
R84 R 4-9.11.14.17-19.28.32.33 40.41.47.49-51.53.58.59 62-64.67.70-73.77-79.81
C95 C 10.20.22-29.38 48.54.56-59.64.73-79.87.88
IC1 TA2057N
IC2 LC72136N PLL
IC4 BU1923 RDS
FM IF/DET/MPX AM RF/IF/DET
FM/AM SW
TUNER SIGNAL
TO FUNCTION
LVA10121-A1

	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.5	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.1	2.0
IC2	FM NO SIGNAL	2.4	0	0	5.1	5.0	5.1	3.7	3.7	2.0	3.8	5.1	0	0	0	0	2.6	5.1	1.0	1.0	3.7	0	2.7		
IC4	FM NO SIGNAL	2.0	2.5	2.5	2.5	5.0	0	2.5	2.5	0	0	0	5.0	2.4	2.4	2.5	2.5								

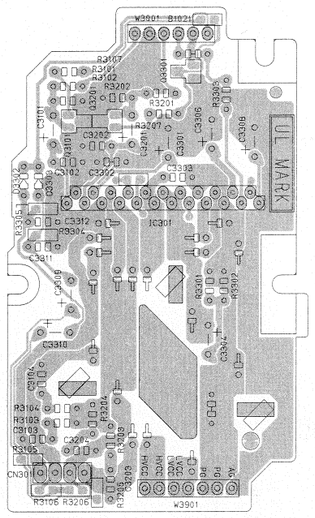
Tr NO.	Q1			Q5			Q7			Q8			Q14		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
FM 87.5MHz NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1	5.1	5.1	4.5
AM 522KHz NO SIGNAL	0	0	0	8.8	0	8.7	1.6	0	1.1	1.6	0	1.1	5.1	0.1	8.7

Tr NO.	Q2			Q3			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B
AM 522KHz NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7
AM 144KHz NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1

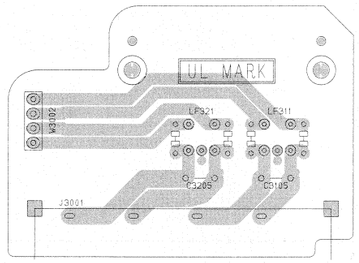
FS-SD5R/FS-SD7R/FS-SD9R

Printed circuit boards

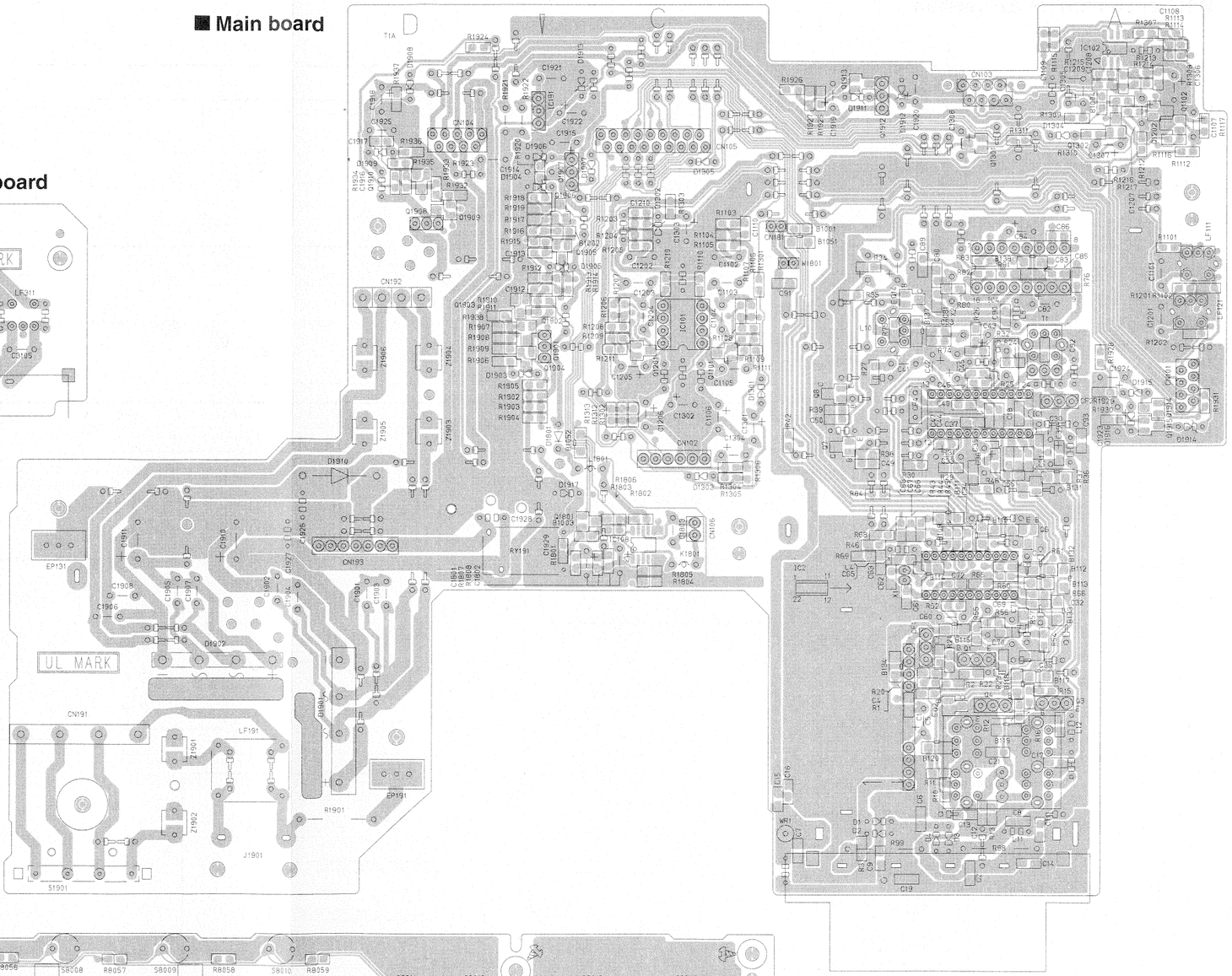
■ Power IC board



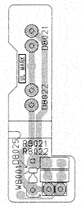
■ Speaker jack board



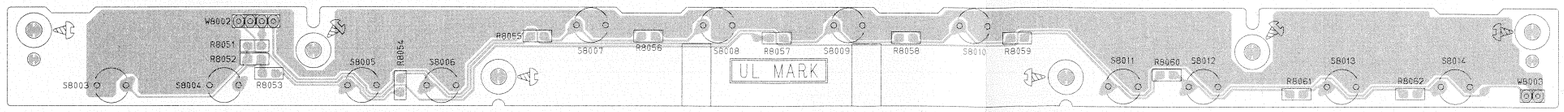
■ Main board



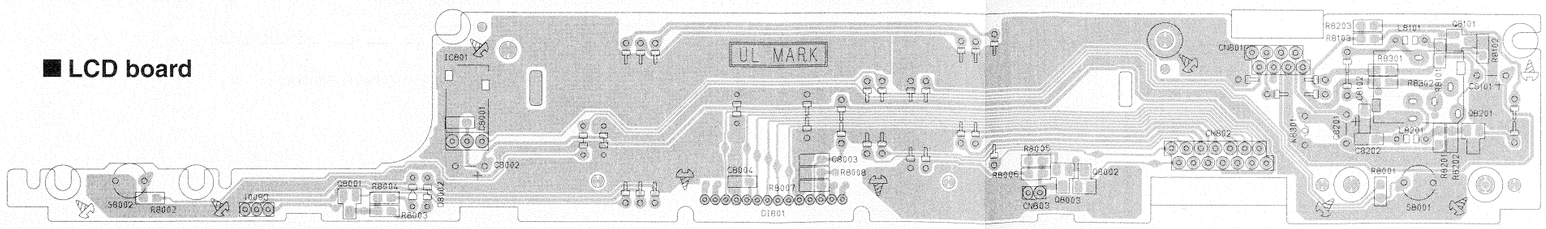
■ LCD lamp board



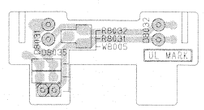
■ Switch board



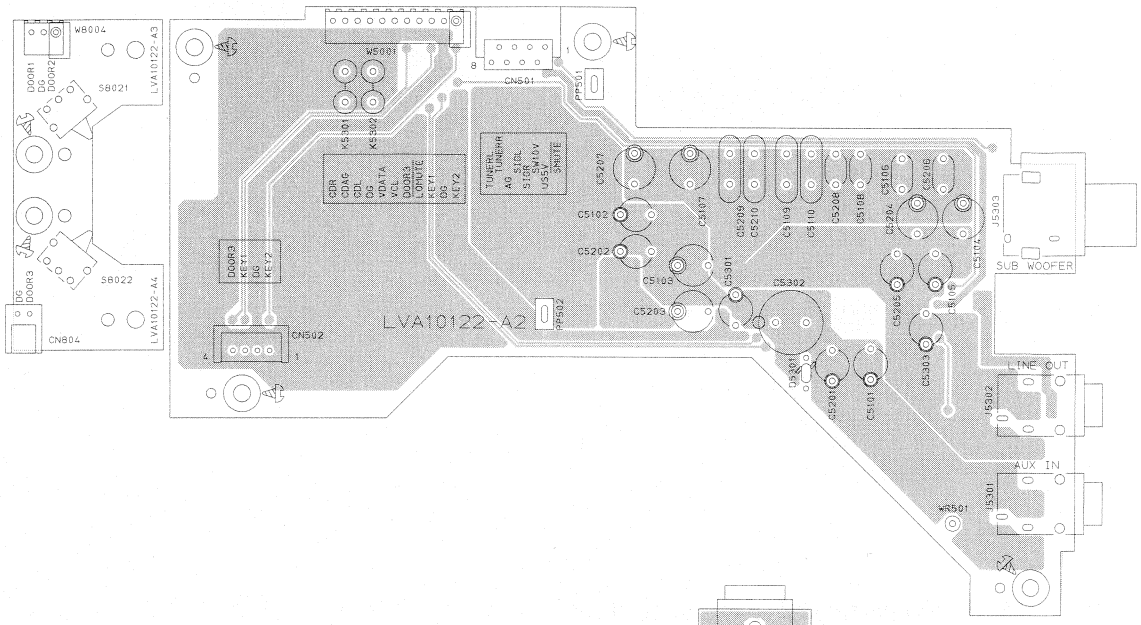
■ LCD board



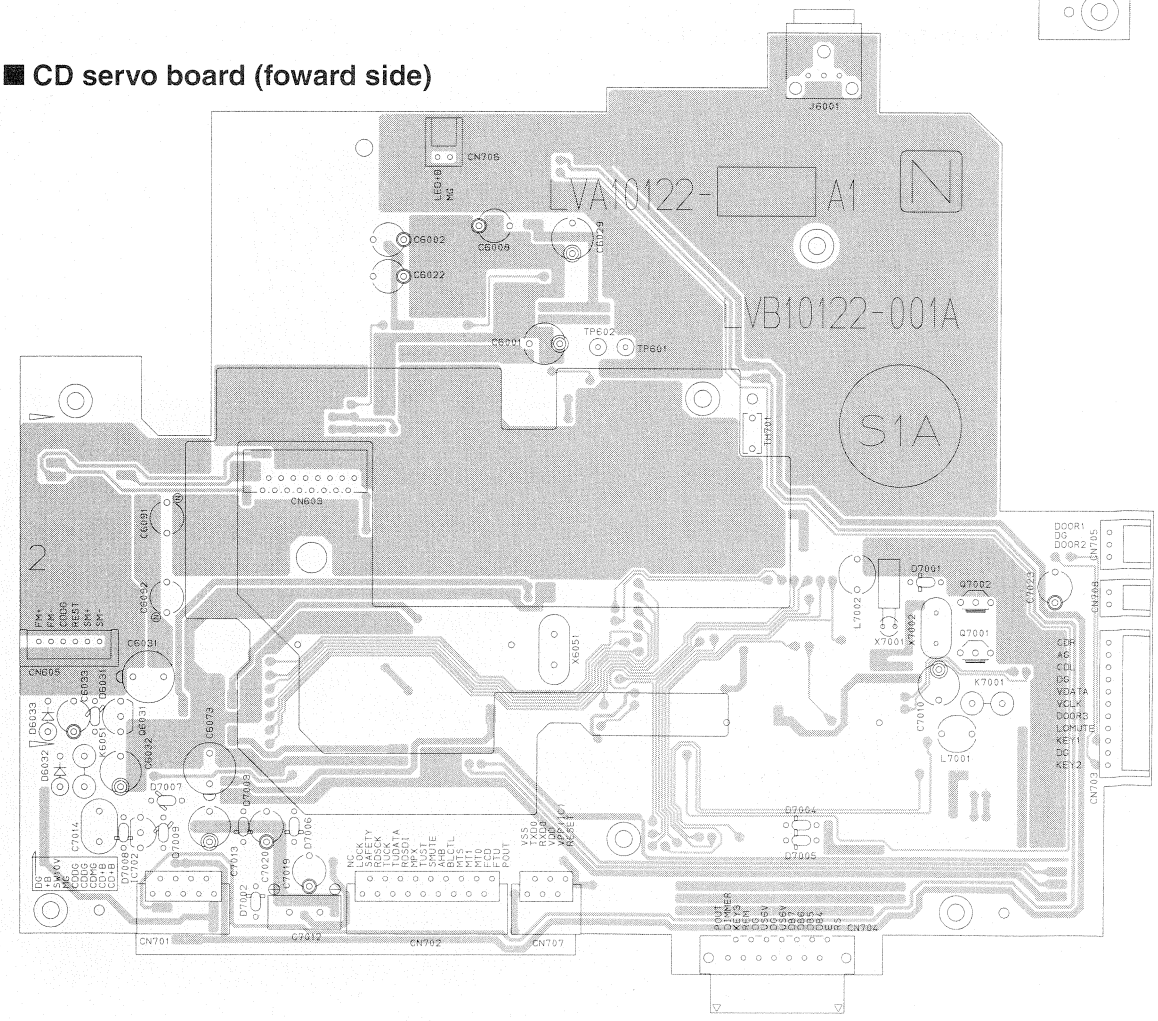
■ Lamp board



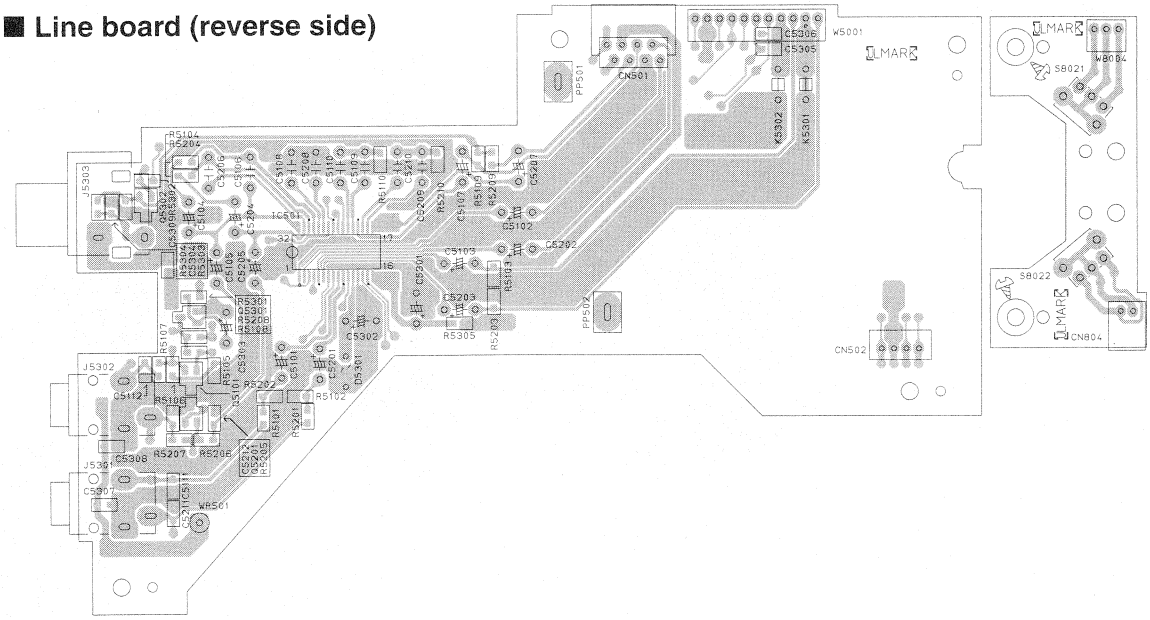
■ Line board (foward side)



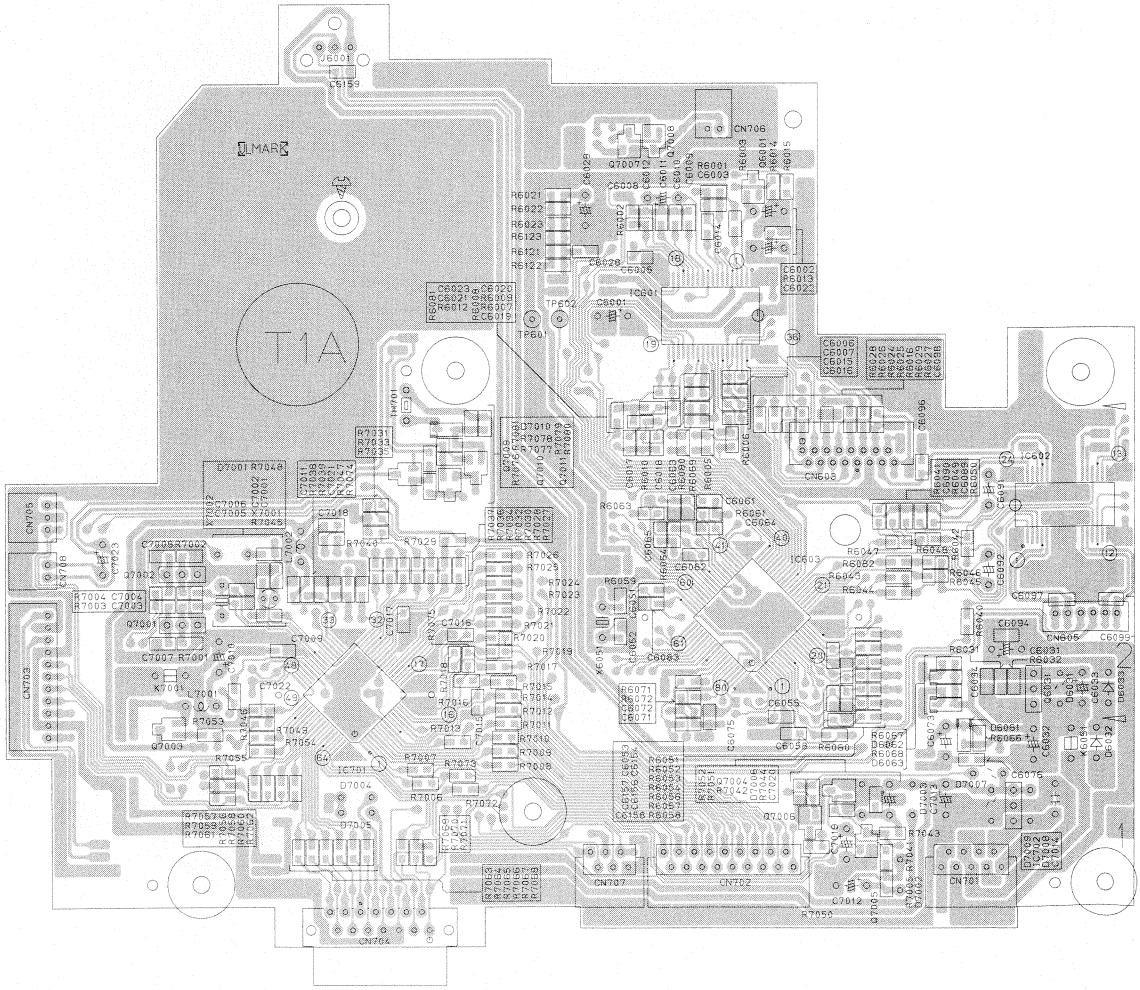
■ CD servo board (foward side)



■ Line board (reverse side)



■ CD servo board (reverse side)



PARTS LIST

[FS-SD5R]
[FS-SD7R/FS-SD9R]

* All printed circuit boards and its assemblies are not available as service parts.

Area Suffix
FS-SD5R/FS-SD7R
B ---------- U.K.
E --- Continental Europe
EN ---- Northern Europe
FS-SD9R
B ---------- U.K.
E --- Continental Europe
EN ---- Northern Europe
EV ----- Eastern Europe
EE -- Russian Federation
UB ---------- Hong Kong

- Contents -

Exploded view of general assembly and parts list ---------- 3- 2
Electrical parts list ---------- 3- 5
Packing materials and accessories parts list ---------- 3-12

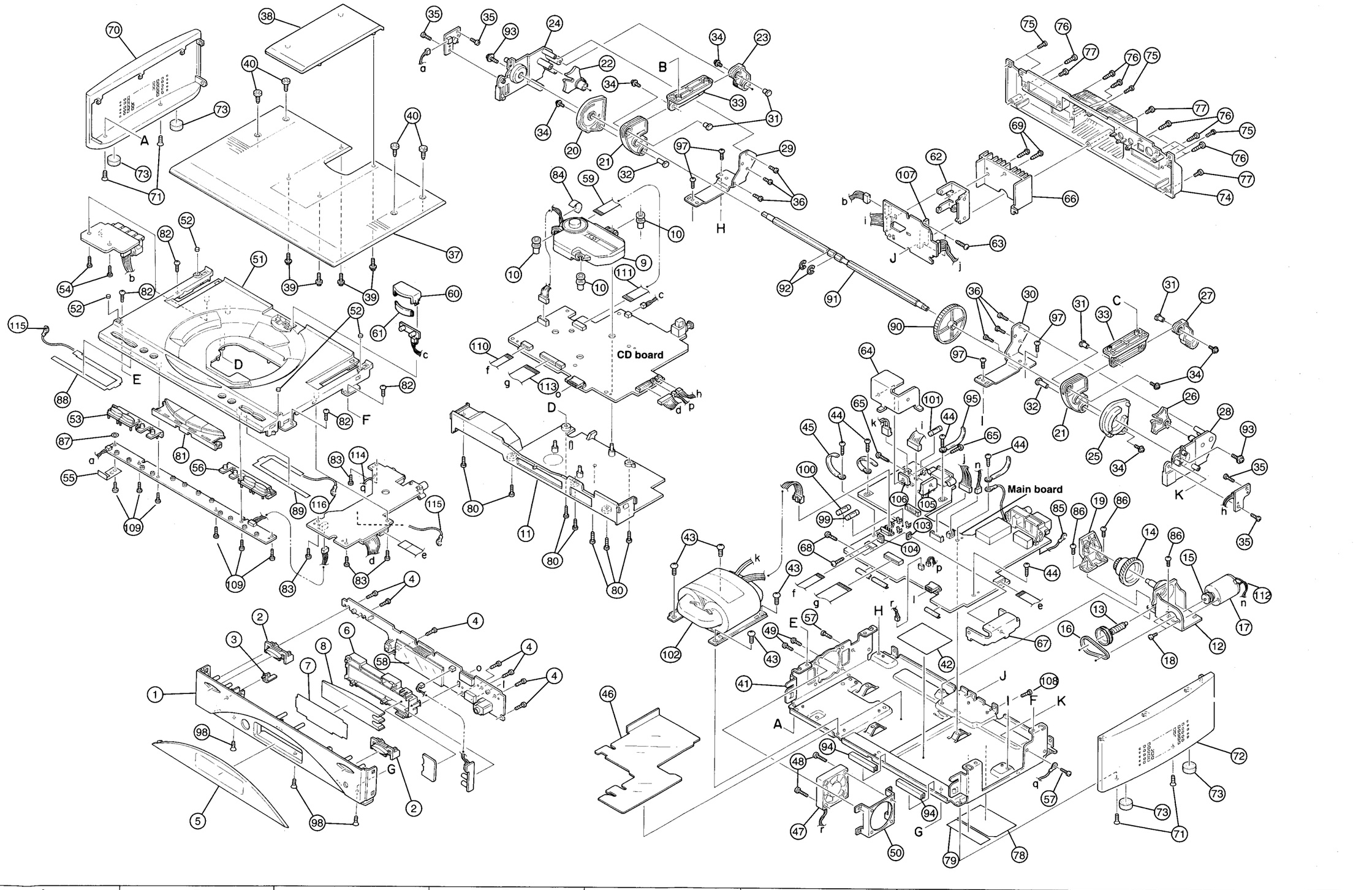
■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LV10325-003A	FRONT PANEL	1	FS-SD9R	
		LV10325-001A	FRONT PANEL	1	FS-SD5R/SD7R	
	2	LV31677-001A	PUSH BUTTON 1	2	ABS/PLATING	
	3	LV41520-001A	INDICATOR	1	STANDBY LED	
	4	QYSDSF2608Z	SCREW	7	FRONT+SW PWB+BT	
	5	LV31678-001A	LENS	1	FS-SD5R/SD7R	
		LV31678-003A	LENS	1	FS-SD9R	
	6	LV31679-001A	LCD CASE	1	ABS	
	7	LV41519-001A	SHEET	1	LCD FILTER	
	8	LV31680-001A	REFLECTOR	1	PMMA/MILKY	
	9	KSM-770ABA	CD MECHA	1	CD MECHA	
	10	LV40770-002A	INSULATOR	3		
	11	LV10326-001A	CD CHASSIS	1	MIPS	
	12	LV31687-001A	MOTOR BASE	1	ABS	
	13	LV41522-001A	WORM GEAR	1	POM	
	14	LV41523-001A	WORM WHEEL	1	POM	
	15	LV41536-001A	PULLEY	1	POM	
	16	LV41598-001A	BELT	1		
	17	QAR0100-001	DC MOTOR	1		
	18	QYSPSP3004Z	SCREW	2	DC MOTOR+M.BASE	
	19	LV31688-001A	WHEEL STOPPER	1	ABS	
	20	LV31691-001A	G.WHEEL(L)	1	POM	
	21	LV31690-002A	ARM	2	FS-SD9R	
		LV31690-001A	ARM	2	FS-SD5R/SD7R	
	22	LV31693-001A	G.GEAR(L)	1	PBT	
	23	LV31695-002A	ARM GEAR(L)	1	FS-SD9R	
		LV31695-001A	ARM GEAR(L)	1	FS-SD5R/SD7R	
	24	LV31697-002A	GEAR BASE(L)	1	PBT	
	25	LV31692-001A	G.WHEEL(R)	1	POM	
	26	LV31694-001A	G.GEAR(R)	1	PBT	
	27	LV31696-002A	ARM GEAR(R)	1	FS-SD9R	
		LV31696-001A	ARM GEAR(R)	1	FS-SD5R/SD7R	
	28	LV31698-002A	GEAR BASE(R)	1	PBT	
	29	LV32127-001A	GEAR BKT(L)	1	EGC T1	
	30	LV32128-001A	GEAR BKT(R)	1	EGC T1	
	31	LV41525-001A	SHAFT 2	4	SUS	
	32	LV41526-001A	SHAFT 3	2	SUS	
	33	LV31701-002A	DOOR BASE	2	FS-SD9R	
		LV31701-001A	DOOR BASE	2	FS-SD5R/SD7R	
	34	QYSPSPG2605N	SCREW	6	DOOR BASE+ARM	
	35	QYSDSF2606Z	SCREW	4	SW.PWB+G.BASE	
	36	QYSDSF2606Z	SCREW	6	G.BKT+G.BASE	
	37	LV10328-004A	CD DOOR	1	FS-SD9R	
		LV10328-003A	CD DOOR	1	FS-SD5R/SD7R	
	38	LV31702-005A	DOOR COVER	1	FS-SD9R	
		LV31702-001A	DOOR COVER	1	FS-SD5R	
		LV31702-003A	DOOR COVER	1	FS-SD7R	
	39	LV41758-001A	CUSTOM SCREW	4	D.C.BKT+D.COVER	
	40	LV41587-001A	SPECIAL SCREW	4	CD DOOR+D.BASE	
	41	LV10329-001A	BOTTOM CHASSIS	1	EGC T1.0	
	42	LV30064-068A	SPACER	1		
	43	QYSBST4006Z	T.SCREW	4	BOTTOM.C+TRANS	

Exploded view of general assembly and parts list

Block No. M 1 M M



FS-SD5R/FS-SD7R/FS-SD9R

■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	44	QYSBST3006Z	T.SCREW	5	BOTTOM+MAIN PWB	
	45	VKZ4001-110	WIRE HOLDER	1		
	46	LV31901-001A	BURRER	1	BETW.AC&BTM	
	47	QAR0148-001	FAN MOTOR	1		
	48	QYSPST3012Z	T.SCREW	2		
	49	QYSBST3006Z	T.SCREW	2		
	50	LV41799-001A	FAN BRACKET	1		
	51	LV10327-001A	TOP PANEL	1	FS-SD5R/SD7R	
		LV10327-003A	TOP PANEL	1	FS-SD9R	
	52	LV41821-001A	FELT	4	FS-SD5R/SD7R	
		LV41821-002A	FELT	4	FS-SD9R	
	53	LV31681-001A	PUSH BUTTON 3	1	ABS/PLATING	
	54	QYSDSF2608Z	SCREW	2	P.BTN3+PWB+TOP	
	55	LV41828-001A	PROTECTOR	1		
	56	LV31682-001A	PUSH BUTTON 2	1	ABS/PLATINGR	
	57	QYSDSF2608Z	SCREW	2	P.BTN2+PWB+TOP	
	58	QLD0120-001	L.C.DISPL.PANEL	1	D1801	
	59	QUQ910-1607BJ	FFC WIRE	1	CD MECHA - MICO	
	60	LV31686-001A	L.E.D.BOX	1	FS-SD5R/SD7R	
		LV31686-002A	LED BOX	1	FS-SD9R	
	61	LV41521-001A	LED COVER	1	ABS	
	62	LV31704-001A	IC HOLDER	1	AL T2	
	63	QYSBSF3010Z	SCREW	2	IC+IC HOLDER	
	64	LV31849-001A	HEAT SINK2	1	AL T2	
	65	QYSBSF3010Z	SCREW	2	DIODE+H.SINK2	
	66	LV31705-002A	HEAT SINK	1	AL	
	67	LV31850-001A	HEAT SINK3	1	AL T2	
	68	QYSBSF3010Z	SCREW	2	TR+H.SINK3	
	69	QYSBSF3008Z	SCREW	2	IC HOLDER+H.SIN	
	70	LV10330-002A	SIDE PANEL(L)	1	FS-SD9R	
		LV10330-001A	SIDE PANEL(L)	1	FS-SD5R/SD7R	
	71	QYSSST3006Z	SCREW	4	S.PANEL+BOTTOM	
	72	LV10331-002A	SIDE PANEL(R)	1	FS-SD9R	
		LV10331-001A	SIDE PANEL(R)	1	FS-SD5R/SD7R	
	73	LV41832-001A	FOOT	4	SIDE PANEL	
	74	LV10332-001A	REAR PANEL	1	FS-SD5R/SD7R	
		LV10332-004A	REAR PANEL	1	FS-SD9R	
	75	QYSDSF2608N	SCREW	5	REAR+TOP	
	76	QYSDSG3008N	T.SCREW	7	REAR+JACK	
	77	QYSDSG3008N	T.SCREW	3	REAR+BOTTOM	
	78	LV32004-003A	NAME PLATE	1	FS-SD7R	
		LV32005-002A	NAME PLATE	1	FS-SD9R	UB
		LV31706-003A	NAME PLATE	1	FS-SD5R	
⚠		LV32005-003A	NAME PLATE	1	FS-SD9R	B
	79	LV41772-001A	CAUTION LABEL	1	REAR PANEL	
	80	QYSDSF2608Z	SCREW	7	CD CHASSIS+TOP	
	81	LV31683-001A	FUNC BTN ASSY	1	FS-SD5R/SD7R	
		LV31683-002A	FUNC BTN ASSY	1	FS-SD9R	
	82	QYSBST3006Z	T.SCREW	4		
	83	QYSDSF2606Z	SCREW	4	JACK PWB+TOP	
	84	LV30064-008A	SPACER	1		
	85	QUB220-05A4DM	SIN TWIST WIRE	1		

■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	86	QYSBST3006Z	T.SCREW	3	MOTER.B+BOTTOM.	
	87	LV30226-015A	SPACER	1		
	88	LV41826-001A	SHIELID(A)	1		
	89	LV41827-001A	SHIELD(R)	1		
	90	LV41524-001A	MAIN GEAR	1	POM	
	91	LV31689-001A	SHAFT 1	1	SUS	
	92	REE6000X	E RING	2		
	93	QYSPSPG3006Z	SCREW	2	SAFT 1+G.BASE	
	94	LV30064-075A	SPACER	2		
	95	QUB270-06DMDM	SIN TWIST WIRE	1		
	97	QYSBST3006Z	T.SCREW	4	BOTTOM.C+TOP	
	98	QYSSST3006Z	SCREW	3	BOTTOM+FRONT.P	
⚠	99	QMF51E2-6R3-J1	FUSE	1	F1902	
⚠	100	QMF51E2-3R15-J1	FUSE	1	F1903	
⚠	101	QMF51E2-R50-J1	FUSE	1	F1901	
⚠	102	QQT0286-003	POWER TRANS	1	T1901	
⚠	103	2SA1359/OY/	TRANSISTOR	1	Q1901	
⚠	104	2SA1359/OY/	TRANSISTOR	1	Q1908	
⚠	105	D5SBA20-S1	SI DIODE	1	D1901	
⚠	106	D3SBA20-S1	DIODE	1	D1902	
	107	LA4905	IC	1	IC301	
	108	QYSBST3006Z	T.SCREW	1	BOTTOM.C+AMP PW	
	109	QYSDSF2608Z	SCREW	6		
	110	QUQB12-0905DJ	FFC WIRE	1	MAIN - MICOM	
	111	QUQB12-0806CJ	FFC WIRE	1	MAIN - FUNCTION	
	112	WJM0133-001A	E-SI C WIRE C-F	1		
	113	QUQB12-1805DJ	FFC WIRE	1	MAIN - MICOM	
	114	QUB270-07HPDM	CONN.WIRE ASSY	1		
	115	QUB220-10A4DM	SIN TWIST WIRE	2		
	116	QUB220-08A4DM	SIN TWIST WIRE	1		

■ Electrical parts list (Main board)

Block No.01

⚠	Item	Parts number	Parts name	Remaks	Area
	C 1	NCB21HK-223X	C CAPACITOR		
	C 2	NCB21HK-103X	C CAPACITOR		
	C 3	NCB21EK-473X	C CAPACITOR		
	C 4	NCB21HK-103X	C CAPACITOR		
	C 5	QEK41CM-106	E.CAPA I.M	10MF 20% 16V	
	C 6	NCB21HK-102X	C CAPACITOR		
	C 7	NCS21HJ-102X	C CAPACITOR		
	C 8	NCS21HJ-150X	C CAPACITOR		
	C 9	NCB21HK-102X	C CAPACITOR		
	C 11	NCB21HK-102X	C CAPACITOR		
	C 12	NDC21HJ-150X	C CAPACITOR		
	C 13	NCB21EK-473X	C CAPACITOR		
	C 14	NCB21HK-102X	C CAPACITOR		
	C 15	NCB21HK-102X	C CAPACITOR		
	C 16	NCB21HK-102X	C CAPACITOR		
	C 17	NCB21HK-103X	C CAPACITOR		
	C 18	NCB21HK-103X	C CAPACITOR		
	C 19	NCB21HK-122X	C CAPACITOR		
	C 20	NCB21HK-103X	C CAPACITOR		
	C 21	NCB21EK-473X	C CAPACITOR		
	C 30	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 31	NCS21HJ-390X	C CAPACITOR		
	C 32	NCB21HK-102X	C CAPACITOR		
	C 33	QEKC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 34	NCS21HJ-150X	C CAPACITOR		
	C 35	NCB21HK-102X	C CAPACITOR		
	C 36	QEK41CM-106	E.CAPA I.M	10MF 20% 16V	
	C 37	NCB21EK-473X	C CAPACITOR		
	C 39	NCB21EK-473X	C CAPACITOR		
	C 40	NCB21HK-103X	C CAPACITOR		
	C 41	QEKC1HM-104Z	E.CAPA I.M	.10MF 20% 50V	
	C 42	QEK41HM-474	E.CAPA I.M	.47MF 20% 50V	
	C 43	QEKC1HM-335Z	E.CAPA I.M	3.3MF 20% 50V	
	C 44	NCS21HJ-221X	C CAPACITOR		
	C 45	QEK41CM-106	E.CAPA I.M	10MF 20% 16V	
	C 46	NCB21HK-223X	C CAPACITOR		
	C 47	NCB21HK-103X	C CAPACITOR		
	C 49	NCB21HK-183X	C CAPACITOR		
	C 50	NCB21HK-183X	C CAPACITOR		
	C 51	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 52	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 53	NCB21HK-681X	C CAPACITOR		
	C 55	NCS21HJ-120X	C CAPACITOR		
	C 60	QEKC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 61	NCS21HJ-120X	C CAPACITOR		
	C 62	NCS21HJ-120X	C CAPACITOR		
	C 63	NCB21EK-473X	C CAPACITOR		
	C 65	NCB21HK-102X	C CAPACITOR		
	C 66	NCS21HJ-151X	C CAPACITOR		
	C 67	NCS21HJ-101X	C CAPACITOR		
	C 68	NCS21HJ-101X	C CAPACITOR		
	C 69	QEKC1HM-225Z	E.CAPA I.M	2.2MF 20% 50V	
	C 70	NCB21HK-392X	C CAPACITOR		
	C 71	QEKC1HM-335Z	E.CAPA I.M	3.3MF 20% 50V	
	C 72	NCB21HK-102X	C CAPACITOR		
	C 80	NCS21HJ-820X	C CAPACITOR		
	C 81	NCS21HJ-470X	C CAPACITOR		
	C 82	QEK41CM-106	E.CAPA I.M	10MF 20% 16V	
	C 83	NCB21EK-473X	C CAPACITOR		
	C 84	QEKC1HM-225Z	E.CAPA I.M	2.2MF 20% 50V	
	C 85	NCB21HK-331X	C.CAPA. C.M		
	C 86	NCB21HK-561X	C CAPACITOR		
	C 89	NCB21HK-102X	C CAPACITOR		
	C 90	NCB21HK-103X	C CAPACITOR		

⚠	Item	Parts number	Parts name	Remaks	Area
	C 91	NCB21HK-103X	C CAPACITOR		
	C 92	NCB21HK-103X	C CAPACITOR		
	C 93	NCB21HK-103X	C CAPACITOR		
	C 95	NCB21HK-102X	C CAPACITOR		
	CF 1	QAX0420-001	C FILTER	FM IF	
	CF 2	QAX0421-001	C FILTER	FM IF	
	CF 3	QAX0418-001Z	C FILTER		
	CF 4	QAX0409-001	CERA LOCK		
	CN101	QGF1201F3-08	CONNECTOR	TO.FUNC.	
	CN102	QGA2501C1-06	6P CONNECTOR	TO.PO.	
	CN103	QGB1216J1-08S	CONNECTOR	TO.FRONT	
	CN104	QGF1201F3-09	CONNECTOR	TO.MICOM	
	CN105	QGF1201F3-18	CONNECTOR	TO.MICOM	
	CN106	QGA2501C1-02	2P CONNECTOR	TO.MOTOR	
	CN181	QGA2001C1-02	PLUG ASSY		
⚠	CN191	QGA7901C1-02	CONNECTOR	PRI.	
	CN192	QGA3901C1-04	4P CONNECTOR	SEC.	
⚠	CN193	QGA2501C1-07	7P CONNECTOR	TO.PO.	
	CN301	QGA2501F1-04	CONNECTOR	FROM SP.JACK	
	CN801	QGB1216K1-08S	CONNECTOR	TO AMP/TUNER	
	CN802	QGB1216K1-14S	CONNECTOR	TO MICON/CD	
	CN803	QGA2001C1-02	PLUG ASSY	TO BACK LIGHT	
	C1101	QFN31HJ-562Z	M CAPACITOR	MPX	
	C1102	QFVJ1HJ-224Z	CAPACITOR	FS-SD7R/SD9R	
	C1102	QFVJ1HJ-154Z	CAPACITOR	FS-SD5R	
	C1103	QFN31HJ-823Z	MYLAR CAPACITOR	FS-SD5R	
	C1103	QFN31HJ-563Z	MYLAR CAPACIROE	FS-SD7R	
	C1103	QFVC1HJ-563Z	M.M.CAP.IM	FS-SD9R	
	C1104	QFVJ1HJ-563Z	M.M.CAP.IM	FS-SD9R	
	C1104	QFN31HJ-563Z	MYLAR CAPACIROE	FS-SD7R	
	C1104	QFN31HJ-823Z	MYLAR CAPACITOR	FS-SD5R	
	C1105	QTE1C06-476Z	E CAPACITOR	AHB	
	C1106	QTE1V06-226Z	E CAPACITOR	AHB	
	C1107	QETN1HM-475Z	E CAPACITOR	HP	
	C1108	NCS21HJ-151X	C CAPACITOR	HP	
	C1109	NCS21HJ-222X	C CAPACITOR	HP	
	C1110	NCS21HJ-102X	C CAPACITOR		
	C1201	QFN31HJ-562Z	M CAPACITOR	MPX	
	C1202	QFVJ1HJ-224Z	CAPACITOR	FS-SD7R/SD9R	
	C1202	QFVJ1HJ-154Z	CAPACITOR	FS-SD5R	
	C1203	QFN31HJ-823Z	MYLAR CAPACITOR	FS-SD5R	
	C1203	QFN31HJ-563Z	MYLAR CAPACIROE	FS-SD7R	
	C1203	QFVC1HJ-563Z	M.M.CAP.IM	FS-SD9R	
	C1204	QFVJ1HJ-563Z	M.M.CAP.IM	FS-SD9R	
	C1204	QFN31HJ-563Z	MYLAR CAPACIROE	FS-SD7R	
	C1204	QFN31HJ-823Z	MYLAR CAPACIROE	FS-SD5R	
	C1205	QTE1C06-476Z	E CAPACITOR	AHB	
	C1206	QTE1V06-226Z	E CAPACITOR	AHB	
	C1207	QETN1HM-475Z	E CAPACITOR	HP	
	C1208	NCS21HJ-151X	C CAPACITOR	HP	
	C1209	NCS21HJ-222X	C CAPACITOR	HP	
	C1210	NCS21HJ-102X	C CAPACITOR		
	C1301	QETN1EM-106Z	E CAPACITOR	AHB	
	C1302	QETN1EM-476Z	E CAPACITOR	AHB	
	C1303	QTE1E06-476Z	E CAPACITOR	FS-SD9R	
	C1303	QTE1V06-226Z	AL E.CAPACITOR	FS-SD5R/SD7R	
	C1304	QETN1HM-105Z	E CAPACITOR	AHB	
	C1305	QETN1VM-107Z	E CAPACITOR	HP	
	C1306	QETN1CM-476Z	E CAPACITOR	HP	
	C1307	QETN1HM-106Z	E CAPACITOR	HP.MUTE.D	
	C1308	QETN1HM-106Z	E CAPACITOR	S.MUTE.D	
	C1801	QETN1HM-106Z	E CAPACITOR	M.DRIVE	
	C1802	QETN1VM-107Z	E CAPACITOR	M.DRIVE	
	C1803	QCZ0205-155Z	ML C CAPACITOR	M.DRIVE	

■ Electrical parts list (Main board)

Block No.01

⚠	Item	Parts number	Parts name	Remaks	Area
⚠	C1901	QFVJ1HJ-104Z	TF CAPACITOR	HV	
⚠	C1902	QFVJ1HJ-104Z	TF CAPACITOR	HV	
⚠	C1903	QFVJ1HJ-104Z	TF CAPACITOR	HV	
⚠	C1904	QFVJ1HJ-104Z	TF CAPACITOR	HV	
⚠	C1905	QFVJ1HJ-104Z	TF CAPACITOR	LV	
⚠	C1906	QFVJ1HJ-104Z	TF CAPACITOR	LV	
⚠	C1907	QFVJ1HJ-104Z	TF CAPACITOR	LV	
⚠	C1908	QFVJ1HJ-104Z	TF CAPACITOR	LV	
⚠	C1910	QETM1EM-828	E CAPACITOR	HV	
⚠	C1911	QETM1EM-688	E CAPACITOR	LV	
	C1912	NCS21HJ-221X	C CAPACITOR	SW10	
	C1913	NCB21HK-103X	C CAPACITOR	SW10	
	C1914	QETN1HM-476Z	E CAPACITOR	SW10	
	C1915	QETN1CM-107Z	E CAPACITOR	L.FIL	
	C1916	NCS21HJ-221X	C CAPACITOR	CD6.5	
	C1917	NCB21HK-103X	C CAPACITOR	CD6.5	
	C1918	QTE1E06-476Z	E CAPACITOR	CD6.5	
	C1919	QETN1CM-106Z	E CAPACITOR	BL7	
	C1920	QETN1EM-226Z	E CAPACITOR	BL7	
	C1921	QFVJ1HJ-104Z	TF CAPACITOR	US5	
	C1922	QETN1EM-106Z	E CAPACITOR	US5	
	C1923	QETN1HM-475Z	E CAPACITOR	TU5	
	C1924	QETN1CM-107Z	E CAPACITOR	TU5	
	C1925	QFZ0160-223Z	PP CAPA IM	FS-SD9R	
	C1925	QFN31HJ-103Z	MYLAR CAPACITOR	FS-SD5R/SD7R	
⚠	C1926	QCBB1HK-103Y	C CAPACITOR	LV	
⚠	C1927	QCBB1HK-103Y	C CAPACITOR	HV	
	C1928	QCBB1HK-103Y	C CAPACITOR	.010MF 10% 50V	
	C1929	NCB21HK-103X	C CAPACITOR		
	C3101	QTE1V06-106Z	E CAPACITOR	IN	
	C3102	QCBB1HK-331Y	C CAPACITOR	IN	
	C3103	QCBB1HK-104Y	TF CAPACITOR	OUT	
	C3104	QCBB1HK-104Y	TF CAPACITOR	OUT	
	C3105	QFN31HJ-332Z	M CAPACITOR	E.ONLY	
	C3201	QTE1V06-106Z	E CAPACITOR	IN	
	C3202	QCBB1HK-331Y	C CAPACITOR	IN	
	C3203	QCBB1HK-104Y	TF CAPACITOR	OUT	
	C3204	QCBB1HK-104Y	TF CAPACITOR	OUT	
	C3205	QFN31HJ-332Z	M CAPACITOR	E.ONLY	
	C3301	QETN1CM-106Z	E CAPACITOR	BEEP	
	C3302	NCS21HJ-152X	C CAPACITOR		
	C3303	QCBB1HK-104Y	TF CAPACITOR	FS-SD9R	
	C3303	QCBB1HK-103Y	CER.CAPACITOR-S	FS-SD5R/SD7R	
	C3304	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C3306	QTE1E06-476Z	E CAPACITOR	FS-SD9R	
	C3306	QTE1V28-107Z	AL E.CAPACITOR	FS-SD5R/SD7R	
	C3308	QETN1CM-336Z	E CAPACITOR	ON.TIME	
	C3309	QETN1HM-105Z	E CAPACITOR	AHB NF	
	C3310	QETN1HM-105Z	E CAPACITOR	AHB NF	
	C3311	QCBB1HK-473Y	C CAPACITOR	AHB NF	
	C3312	QCBB1HK-473Y	C CAPACITOR	AHB NF	
	C3320	NCS21HJ-102X	C CAPACITOR		
	C8001	NCB21HK-103X	C CAPACITOR		
	C8002	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C8003	NCB21HK-223X	C CAPACITOR		
	C8004	NCS21HJ-101X	C CAPACITOR		
	C8101	QER41AM-227	E.CAPA. I.M	220MF 20% 10V	
	C8102	NCB21HK-103X	C CAPACITOR		
	C8201	QER41AM-227	E.CAPA. I.M	220MF 20% 10V	
	C8202	NCB21HK-103X	C CAPACITOR		
	D 1	1SS133-T2	SI DIODE		
	D 2	1SS133-T2	SI DIODE		
	D 3	1SS133-T2	SI DIODE		
	D 4	1SS133-T2	SI DIODE		

⚠	Item	Parts number	Parts name	Remaks	Area
	DI801	QLD0120-001	LCD		
	D1301	1SS133-T2	SI DIODE	AHB	
	D1302	MTZJ5.1A-T2	ZENER DIODE	AHB	
	D1303	1SS133-T2	SI DIODE	AHB	
	D1304	1SS133-T2	SI DIODE	HP.MUTE	
	D1305	1SS133-T2	SI DIODE	S.MUTE	
	D1801	DSK10C-T1	DIODE	M.DRIV	
	D1903	1SS133-T2	SI DIODE	SW10	
	D1904	MTZJ5.6C-T2	ZENER DIODE	SW10	
		MTZJ10A-T2	ZENER DIODE	SW10	
	D1906	MTZJ11A-T2	Z.DIODE I.M	L.FIL	
	D1907	1SS133-T2	SI DIODE	L.FIL	
	D1908	1SS133-T2	SI DIODE	CD6.5	
	D1909	MTZJ6.8B-T2	NER DIODE	CD6.5	
⚠	D1910	6A10E2	SI DIODE	LV	
	D1911	MTZJ6.8A-T2	ZENER DIODE	BL7	
⚠	D1912	MTZJ10A-T2	ZENER DIODE	BL7	
⚠	D1913	MTZJ6.8B-T2	NER DIODE	US5V	
	D1914	MTZJ3.9B-T2	Z DIODE IM	TU5	
	D1915	1SS133-T2	SI DIODE	TU5	
	D1916	1SS133-T2	SI DIODE	TU5	
	D1917	1SS133-T2	SI DIODE		
	D3302	1SS133-T2	SI DIODE	AHB NF	
	D3303	1SS133-T2	SI DIODE	AHB NF	
	D8001	SPR-39MVWF	LED	POWER/STANDBY	
	D8002	1SS133-T2	SI DIODE		
	D8021	TLYH156P/ST/	LED	FS-SD9R	
	D8021	SELU1E50CM	LED	FS-SD5R/SD7R	
	D8022	SELU1E50CM	LED	FS-SD5R/SD7R	
	D8022	TLYH156P/ST/	LED	FS-SD9R	
	D8025	MTZJ10C-T2	ZENER DIODE	FS-SD5R/SD7R	
	D8031	TLYH156P/ST/	LED	FS-SD9R	
	D8031	SELU1E56BM	LED	FS-SD5R/SD7R	
	D8032	SELU1E56BM	LED	FS-SD5R/SD7R	
	D8032	TLYH156P/ST/	LED	FS-SD9R	
	D8035	MA3100/M/-X	ZENER DIODE	FS-SD5R/SD7R	
	EP131	QNZ0136-001Z	EARTH PLATE		
	IC 1	TA2057N	IC		
	IC 2	LC72136N	IC		
	IC 4	BU1923	IC		
	IC101	NJM4580DD	IC	AHB	
	IC102	BA15218F-XE	IC	HP	
	IC108	TA8409F-W	IC	M.DRIVE	
	IC191	UPC78L05J-T	I C	US5	
⚠	IC301	LA4905	IC		
	IC801	GP1U271X	RM RECIVER		
	J 1	QNB0014-001	ANT TERMINAL	AM/FM ANT COAX	
⚠	J1901	QNC0030-001	AC INLET		
	J3001	QNB0092-001	SPK TERMINAL		
	J8301	QNS0162-001	JACK	HP.JACK	
	K1801	QQR0779-001Z	INDUCTOR		
	K8301	QQR0601-001Z	FERRITE BEADS		
	L 1	QQR0870-001	COIL BLOCK	MW/LW RF/OSC	
	L 4	QQL231K-221Y	INDUCTOR		
	L 5	QQL231K-101Y	INDUCTOR		
	L 10	QQR0794-001	TRAP COIL	114KHZ TRAP	
	L 11	QQL231K-2R7Y	INDUCTOR		
	L 12	QQL231K-4R7Y	INDUCTOR		
	LF111	QQR0590-001	FILTER	MPX.FILTER	
	LF121	QQR0590-001	FILTER	MPX.FILTER	
⚠	LF191	QQR0799-001	INDUCTOR	EXCEPT J	
	LF311	QQR0797-002	INDUCTOR	E.ONLY	
	LF321	QQR0797-002	INDUCTOR	E.ONLY	
	L1801	QQL25CK-221Z	INDUCTOR	M.DRIVER	

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⚠	Item	Parts number	Parts name	Remaks	Area
	L8101	QQL231K-470Y	INDUCTOR		
	L8201	QQL231K-470Y	INDUCTOR		
	PP101	QZW0038-001	WIRE CLAMP		
	PP102	QZW0038-001	WIRE CLAMP		
	PP103	QZW0038-001	WIRE CLAMP		
	PP104	QZW0038-001	WIRE CLAMP		
	Q 1	2SC2668/O/-T	TRANSISTOR		
	Q 2	DTA114YKA-X	TRANSISTOR		
	Q 3	KTC3199/GL/-T	TRANSISTOR		
	Q 4	KTC3199/GL/-T	TRANSISTOR		
	Q 6	DTA114YKA-X	TRANSISTOR		
	Q 7	2SA1037AK/R/-X	TRANSISTOR		
	Q 8	2SA1037AK/R/-X	TRANSISTOR		
	Q 14	2SA1037AK/R/-X	TRANSISTOR		
	Q1101	2SD2114K/VW/-X	CHIP TR.C.M	AHB	
	Q1102	2SC2412K/R/-X	TRANSISTOR	HP.MUTE	
	Q1201	2SD2114K/VW/-X	CHIP TR.C.M	AHB	
	Q1202	2SC2412K/R/-X	TRANSISTOR	HP.MUTE	
	Q1301	DTA123EKA-X	DIGITAL.TR	S.MUTE.D	
	Q1302	DTA123EKA-X	DIGITAL.TR	HP.MUTE.D	
	Q1801	2SC2412K/R/-X	TRANSISTOR	M.DRIV	
	Q1902	2SC2412K/R/-X	TRANSISTOR	SW10	
	Q1903	2SC2412K/R/-X	TRANSISTOR	SW10	
	Q1904	2SA1037AK/R/-X	TRANSISTOR	SW10	
	Q1905	DTA144TKA-X	TRANSISTOR	SW10	
	Q1906	DTC144TKA-X	TRANSISTOR	SW10	
	Q1907	2SD2144S/VW/-T	TRANSISTOR	L.FIL	
	Q1909	2SC2412K/R/-X	TRANSISTOR	CD6.5	
	Q1910	2SC2412K/R/-X	TRANSISTOR	CD6.5	
⚠	Q1912	2SA1175/FE/-T	TRANSISTOR	BL7	
	Q1913	2SC2412K/R/-X	TRANSISTOR	BL7	
	Q1914	2SA1037AK/R/-X	TRANSISTOR	TU5	
	Q1915	2SC2412K/R/-X	TRANSISTOR	TU5	
	Q3101	2SD2114K/VW/-X	CHIP TR.C.M	S.MUTE	
	Q3201	2SD2114K/VW/-X	CHIP TR.C.M	S.MUTE	
	Q3301	DTA143TKA-X	TRANSISTOR	S.MUTE BUFF	
	Q8001	DTC114TKA-X	TRANSISTOR		
	Q8002	DTC114EKA-X	TR		
	Q8003	DTA114EKA-X	DIGITAL.TRANSIS		
	Q8101	2SD2114K/VW/-X	CHIP TR.C.M		
	Q8201	2SD2114K/VW/-X	CHIP TR.C.M		
	R 1	NRSA02J-102X	MG RESISTOR		
	R 2	NRSA02J-820X	MG RESISTOR		
	R 3	NRSA02J-560X	MG RESISTOR		
	R 10	NRSA02J-103X	MG RESISTOR		
	R 12	NRSA02J-102X	MG RESISTOR		
	R 13	NRSA02J-104X	MG RESISTOR		
	R 15	NRSA02J-103X	MG RESISTOR		
	R 16	NRSA02J-103X	MG RESISTOR		
	R 20	NRSA02J-331X	MG RESISTOR		
	R 21	NRSA02J-224X	MG RESISTOR		
	R 22	NRSA02J-331X	MG RESISTOR		
	R 23	NRSA02J-100X	MG RESISTOR		
	R 24	NRSA02J-271X	MG RESISTOR		
	R 25	NRSA02J-473X	MG RESISTOR		
	R 26	NRSA02J-153X	MG RESISTOR		
	R 27	NRSA02J-223X	MG RESISTOR		
	R 29	NRSA02J-473X	MG RESISTOR		
	R 30	NRSA02J-103X	MG RESISTOR		
	R 31	NRSA02J-103X	MG RESISTOR		
	R 34	NRSA02J-333X	MG RESISTOR		
	R 35	NRSA02J-333X	MG RESISTOR		
	R 36	NRSA02J-103X	MG RESISTOR		
	R 37	NRSA02J-472X	MG RESISTOR		

⚠	Item	Parts number	Parts name	Remaks	Area
	R 38	NRSA02J-392X	MG RESISTOR		
	R 39	NRSA02J-392X	MG RESISTOR		
	R 42	NRSA02J-102X	MG RESISTOR		
	R 43	NRSA02J-102X	MG RESISTOR		
	R 44	NRSA02J-102X	MG RESISTOR		
	R 45	NRSA02J-102X	MG RESISTOR		
	R 46	NRSA02J-473X	MG RESISTOR		
	R 48	NRSA02J-102X	MG RESISTOR		
	R 52	NRSA02J-472X	MG RESISTOR		
	R 54	NRSA02J-472X	MG RESISTOR		
	R 55	NRSA02J-182X	MG RESISTOR		
	R 56	NRSA02J-332X	MG RESISTOR		
	R 57	NRSA02J-102X	MG RESISTOR		
	R 60	NRSA02J-102X	MG RESISTOR		
	R 61	NRSA02J-102X	MG RESISTOR		
	R 65	NRSA02J-222X	MG RESISTOR		
	R 66	NRSA02J-222X	MG RESISTOR		
	R 68	NRSA02J-223X	MG RESISTOR		
	R 69	NRSA02J-222X	MG RESISTOR		
	R 74	NRSA02J-332X	MG RESISTOR		
	R 75	NRSA02J-103X	MG RESISTOR		
	R 76	NRSA02J-102X	MG RESISTOR		
	R 80	NRSA02J-222X	MG RESISTOR		
	R 82	NRSA02J-102X	MG RESISTOR		
	R 83	NRSA02J-102X	MG RESISTOR		
	R 84	NRSA02J-103X	MG RESISTOR		
⚠	RY191	QSK0116-001	RELAY		
	R1101	NRSA02J-122X	MG RESISTOR	TU	
	R1102	NRSA02J-562X	MG RESISTOR	TU	
	R1103	NRSA02J-103X	MG RESISTOR	AHB	
	R1104	NRSA02J-332X	MG RESISTOR	LPF	
	R1105	NRSA02J-272X	MG RESISTOR	FS-SD7R/SD9R	
	R1105	NRSA02J-392X	MG RESISTOR	FS-SD5R	
	R1106	NRSA02J-152X	MG RESISTOR	FS-SD5R	
	R1106	NRSA02J-392X	MG RESISTOR	FS-SD7R/SD9R	
	R1107	NRSA02J-153X	MG RESISTOR	AHB	
	R1108	NRSA02J-432X	MG RESISTOR	FS-SD7R/SD9R	
	R1108	NRSA02J-302X	MG RESISTOR	FS-SD5R	
	R1109	NRSA02J-153X	MG RESISTOR	AHB	
	R1110	NRSA02J-184X	MG RESISTOR	FS-SD5R	
	R1110	NRSA02J-224X	MG RESISTOR	FS-SD7R/SD9R	
	R1111	NRSA02J-103X	MG RESISTOR	AHB	
	R1112	NRSA02J-332X	MG RESISTOR	HP	
	R1113	NRSA02J-563X	MG RESISTOR	HP	
	R1114	NRSA02J-102X	MG RESISTOR	HP	
	R1115	NRSA02J-561X	MG RESISTOR	HP	
	R1116	NRSA02J-222X	MG RESISTOR	HP.MUTE	
	R1201	NRSA02J-122X	MG RESISTOR	TU	
	R1202	NRSA02J-562X	MG RESISTOR	TU	
	R1203	NRSA02J-103X	MG RESISTOR	AHB	
	R1204	NRSA02J-332X	MG RESISTOR	LPF	
	R1205	NRSA02J-392X	MG RESISTOR	FS-SD5R	
	R1205	NRSA02J-272X	MG RESISTOR	FS-SD7R/SD9R	
	R1206	NRSA02J-152X	M.G.RESISTOR	FS-SD5R	
	R1206	NRSA02J-392X	MG RESISTOR	FS-SD7R/SD9R	
	R1207	NRSA02J-153X	MG RESISTOR	AHB	
	R1208	NRSA02J-432X	MG RESISTOR	FS-SD7R/SD9R	
	R1208	NRSA02J-432X	MG RESISTOR	FS-SD5R	
	R1209	NRSA02J-153X	MG RESISTOR	AHB	
	R1210	NRSA02J-184X	MG RESISTOR	FS-SD5R	
	R1210	NRSA02J-224X	MG RESISTOR	FS-SD7R/SD9R	
	R1211	NRSA02J-103X	MG RESISTOR	AHB	
	R1212	NRSA02J-332X	MG RESISTOR	HP	
	R1213	NRSA02J-563X	MG RESISTOR	HP	

■ Electrical parts list (Main board)

Block No.01

⚠	Item	Parts number	Parts name	Remaks	Area
	R1214	NRSA02J-102X	MG RESISTOR	HP	
	R1215	NRSA02J-561X	MG RESISTOR	HP	
	R1216	NRSA02J-222X	MG RESISTOR	HP.MUTE	
	R1301	NRSA02J-513X	MG RESISTOR	AHB	
	R1302	NRSA02J-471X	MG RESISTOR	AHB	
	R1303	NRSA02J-102X	MG RESISTOR	AHB	
	R1304	NRSA02J-154X	MG RESISTOR	FS-SD5R	
	R1304	NRSA02J-224X	MG RESISTOR	FS-SD7R/SD9R	
	R1305	NRSA02J-124X	MG RESISTOR		
	R1306	NRSA02J-513X	MG RESISTOR	FS-SD5R	
	R1306	NRSA02J-563X	MG RESISTOR	FS-SD7R/SD9R	
	R1307	NRSA02J-912X	MG RESISTOR	HP	
	R1308	NRSA02J-103X	MG RESISTOR	HP	
	R1309	NRSA02J-100X	MG RESISTOR	HP	
	R1310	NRSA02J-102X	MG RESISTOR	HP.MUTE.D	
	R1311	NRSA02J-102X	MG RESISTOR	S.MUTE.D	
	R1312	NRSA02J-471X	MG RESISTOR		
	R1313	NRSA02J-471X	MG RESISTOR		
	R1801	NRSA02J-471X	MG RESISTOR	M.DRIVER	
	R1802	NRSA02J-153X	MG RESISTOR	M.DRIVER	
	R1803	NRSA02J-473X	MG RESISTOR	M.DRIVER	
	R1804	NRSA02J-100X	MG RESISTOR	M.DRIVER	
	R1805	NRSA02J-100X	MG RESISTOR	M.DRIVER	
	R1806	NRSA02J-183X	MG RESISTOR	M.DRIVER	
	R1807	NRSA02J-471X	MG RESISTOR		
	R1808	NRSA02J-471X	MG RESISTOR		
⚠	R1902	NRSA02J-1R0X	MG RESISTOR	SW10	
⚠	R1903	NRSA02J-1R0X	MG RESISTOR	SW10	
⚠	R1904	NRSA02J-1R0X	MG RESISTOR	SW10	
	R1905	NRSA02J-151X	MG RESISTOR	SW10	
	R1906	NRSA02J-102X	MG RESISTOR	SW10	
⚠	R1907	NRSA02J-102X	MG RESISTOR	SW10	
⚠	R1908	NRSA02J-102X	MG RESISTOR	SW10	
⚠	R1909	NRSA02J-102X	MG RESISTOR	SW10	
	R1910	NRSA02J-472X	MG RESISTOR	SW10	
	R1911	NRSA02J-471X	MG RESISTOR	SW10	
	R1912	NRSA02J-561X	MG RESISTOR	SW10	
	R1913	NRSA02J-272X	MG RESISTOR	SW10	
	R1914	NRSA02J-471X	MG RESISTOR	SW10	
	R1915	NRSA02J-822X	MG RESISTOR	SW10	
	R1916	NRSA02J-102X	MG RESISTOR	SW10	
	R1917	NRSA02J-122X	MG RESISTOR	SW10	
	R1918	NRSA02J-153X	MG RESISTOR	SW10	
	R1919	NRSA02J-512X	MG RESISTOR	SW10	
	R1920	NRSA02J-102X	MG RESISTOR	R.FIL	
⚠	R1921	QRZ9006-4R7X	F RESISTOR	BL7	
⚠	R1922	QRZ9006-4R7X	F RESISTOR	US5V	
⚠	R1923	QRZ9006-4R7X	F RESISTOR	TO.MICOM+B	
	R1924	NRSA02J-103X	MG RESISTOR	CD6.5	
	R1925	NRSA02J-561X	MG RESISTOR	BL7	
	R1926	NRSA02J-123X	MG RESISTOR	BL7	
	R1927	NRSA02J-103X	MG RESISTOR	BL7	
	R1928	NRSA02J-122X	MG RESISTOR	TU5	
	R1929	NRSA02J-273X	MG RESISTOR	TU5	
	R1930	NRSA02J-102X	MG RESISTOR	TU5	
	R1931	NRSA02J-390X	MG RESISTOR	TU5	
	R1932	NRSA02J-331X	MG RESISTOR	CD6.5	
	R1933	NRSA02J-681X	MG RESISTOR	CD6.5	
	R1934	NRSA02J-152X	MG RESISTOR	CD6.5	
	R1935	NRSA02J-272X	MG RESISTOR	CD6.5	
	R1936	NRSA02J-151X	MG RESISTOR	CD6.5	
	R1937	NRSA02J-562X	MG RESISTOR		
	R1938	NRSA02J-102X	MG RESISTOR		
	R3101	QRE141J-432Y	C RESISTOR	FS-SD7R/SD9R	

⚠	Item	Parts number	Parts name	Remaks	Area
	R3101	QRE141J-562	C RESISTOR	FS-SD5R	
	R3102	QRE141J-682Y	C RESISTOR	FS-SD5R	
	R3102	QRE141J-103Y	C RESISTOR	FS-SD7R/SD9R	
	R3103	QRE141J-2R2Y	C RESISTOR	OUT	
	R3104	QRE141J-2R2Y	C RESISTOR	OUT	
	R3105	NRSA02J-223X	MG RESISTOR	AHB NF	
	R3106	NRSA02J-223X	MG RESISTOR	AHB NF	
	R3107	QRE141J-222Y	C RESISTOR	S.MUTE	
	R3201	QRE141J-432Y	C RESISTOR	FS-SD7R/SD9R	
	R3201	QRE141J-562	CARBON RESISTOR	FS-SD5R	
	R3202	QRE141J-682Y	C RESISTOR	FS-SD5R	
	R3202	QRE141J-103Y	C RESISTOR	FS-SD7R/SD9R	
	R3203	QRE141J-2R2Y	C RESISTOR	OUT	
	R3204	QRE141J-2R2Y	C RESISTOR	OUT	
	R3205	NRSA02J-223X	MG RESISTOR	AHB NF	
	R3206	NRSA02J-223X	MG RESISTOR	AHB NF	
	R3207	QRE141J-222Y	C RESISTOR	S.MUTE	
	R3301	QRE141J-4R7Y	C RESISTOR	4.7 5% 1/4W	
	R3302	QRE141J-4R7Y	C RESISTOR	4.7 5% 1/4W	
	R3303	QRE141J-103Y	C RESISTOR	ST.BY	
	R3304	NRSA02J-682X	MG RESISTOR	AHB NF	
	R3305	NRSA02J-682X	MG RESISTOR	AHB NF	
	R8001	NRSA02J-102X	MG RESISTOR		
	R8002	NRSA02J-123X	MG RESISTOR		
	R8003	NRSA02J-331X	MG RESISTOR		
	R8004	NRSA02J-331X	MG RESISTOR		
	R8005	NRSA02J-561X	MG RESISTOR		
	R8007	NRSA02J-432X	MG RESISTOR		
	R8010	NRSA02J-104X	MG RESISTOR		
	R8021	NRSA02J-101X	MG RESISTOR	FS-SD5R/SD7R	
	R8021	NRSA02J-391X	MG RESISTOR	FS-SD9R	
	R8022	NRSA02J-391X	MG RESISTOR	FS-SD9R	
	R8022	NRSA02J-101X	MG RESISTOR	FS-SD5R/SD7R	
	R8031	NRSA02J-431X	MG RESISTOR	FS-SD5R/SD7R	
	R8031	NRSA02J-561X	MG RESISTOR	FS-SD9R	
	R8032	NRSA02J-561X	MG RESISTOR	FS-SD9R	
	R8032	NRSA02J-431X	MG RESISTOR	FS-SD5R/SD7R	
	R8051	NRSA02J-101X	MG RESISTOR		
	R8052	NRSA02J-272X	MG RESISTOR		
	R8053	NRSA02J-332X	MG RESISTOR		
	R8054	NRSA02J-562X	MG RESISTOR		
	R8055	NRSA02J-123X	MG RESISTOR		
	R8056	NRSA02J-393X	MG RESISTOR		
	R8057	NRSA02J-101X	MG RESISTOR		
	R8058	NRSA02J-272X	MG RESISTOR		
	R8059	NRSA02J-332X	MG RESISTOR		
	R8060	NRSA02J-562X	MG RESISTOR		
	R8061	NRSA02J-123X	MG RESISTOR		
	R8062	NRSA02J-393X	MG RESISTOR		
	R8101	NRSA02J-220X	MG RESISTOR		
	R8102	NRSA02J-222X	MG RESISTOR		
	R8103	NRSA02J-272X	MG RESISTOR		
	R8201	NRSA02J-220X	MG RESISTOR		
	R8202	NRSA02J-222X	MG RESISTOR		
	R8203	NRSA02J-272X	MG RESISTOR		
	R8301	NRSA02J-222X	MG RESISTOR		
	R8302	NRSA02J-222X	MG RESISTOR		
	S8001	QSW0683-001Z	PUSH SW I.M	OP/CL	
	S8002	QSW0683-001Z	PUSH SW I.M	POWER	
	S8003	QSW0683-001Z	PUSH SW I.M	VOL+	
	S8004	QSW0683-001Z	PUSH SW I.M	VOL-	
	S8005	QSW0683-001Z	PUSH SW I.M	TIMER	
	S8006	QSW0683-001Z	PUSH SW I.M	CLOCK	
	S8007	QSW0683-001Z	PUSH SW I.M	UP	

■ **Electrical parts list (Main board)** **Block No.01**

⚠	Item	Parts number	Parts name	Remaks	Area
	S8008	QSW0683-001Z	PUSH SW I.M	CD	
	S8009	QSW0683-001Z	PUSH SW I.M	STOP	
	S8010	QSW0683-001Z	PUSH SW I.M	DOWN	
	S8011	QSW0683-001Z	PUSH SW I.M	AHB	
	S8012	QSW0683-001Z	PUSH SW I.M	PRESET TU	
	S8013	QSW0683-001Z	PUSH SW I.M	TUNER	
	S8014	QSW0683-001Z	PUSH SW I.M	AUX	
	T 1	QQR0793-001	IFT		
	TU 1	QAU0034-001	FRONT END	FM TU	
	X 1	QAX0402-001	CRYSTAL		
	X 2	QAX0263-001Z	CRYSTAL		
⚠	Z1901	QNG0020-001Z	FUSE CLIP	FOR F1901	
⚠	Z1902	QNG0020-001Z	FUSE CLIP	FOR F1901	
⚠	Z1903	QNG0020-001Z	FUSE CLIP	FOR F1902	
⚠	Z1904	QNG0020-001Z	FUSE CLIP	FOR F1902	
⚠	Z1905	QNG0020-001Z	FUSE CLIP	FOR F1903	
⚠	Z1906	QNG0020-001Z	FUSE CLIP	FOR F1903	

■ **Electrical parts list (CD board)** **Block No.02**

⚠	Item	Parts number	Parts name	Remaks	Area
	CN501	QGF1201F3-08	CONNECTOR	TO MAIN	
	CN502	QGA2001C1-04	4P PLUG ASSY	TO TOPKEY	
	CN603	QGF1008F1-16	16PIN CONNECTOR		
	CN605	QGA2001C1-06	6P PLUG ASSY		
	CN701	QGF1201F3-09	CONNECTOR	TO AMP/TUNER	
	CN702	QGF1201F3-18	CONNECTOR	TO AMP/TUNER	
	CN703	QGA2001F1-11	11P CN RIG	TO FUNCTION	
	CN704	QGB1216J1-14S	CONNECTOR	TO LCD	
	CN705	QGA2001F1-03	CONNECTOR	TO CD DOOR DT1	
	CN706	QGA2001F1-02	2P CONNECTOR	TO DISC LED	
	CN708	QGA2001F1-02	2P CONNECTOR		
	CN804	QGA2001F1-02	2P CONNECTOR		
	C5101	QETN1HM-475Z	E CAPACITOR	LINE IN	
	C5102	QETN1HM-475Z	E CAPACITOR	TU IN	
	C5103	QTE1H06-475Z	E CAPACITOR	CD IN	
	C5104	QTE1V06-106Z	E CAPACITOR	FUC.OUT	
	C5105	QETN1CM-106Z	E CAPACITOR	LINE OUT	
	C5107	QTE1C06-226Z	E CAPACITOR	VOL OUT	
	C5108	QFN31HJ-332Z	M CAPACITOR	TRE.	
	C5109	QFVJ1HJ-154Z	TF CAPACITOR	BASS	
	C5110	QFVJ1HJ-154Z	TF CAPACITOR	BASS	
	C5111	NCS21HJ-151X	C CAPACITOR	LINE IN	
	C5112	NCB21HK-102X	C CAPACITOR	LINE OUT	
	C5201	QETN1HM-475Z	E CAPACITOR	LINE IN	
	C5202	QETN1HM-475Z	E CAPACITOR	TU IN	
	C5203	QTE1H06-475Z	E CAPACITOR	CD IN	
	C5204	QTE1V06-106Z	E CAPACITOR	FUC.OUT	
	C5205	QETN1CM-106Z	E CAPACITOR	LINE OUT	
	C5207	QTE1C06-226Z	E CAPACITOR	VOL OUT	
	C5208	QFN31HJ-332Z	M CAPACITOR	TRE.	
	C5209	QFVJ1HJ-154Z	TF CAPACITOR	BASS	
	C5210	QFVJ1HJ-154Z	TF CAPACITOR	BASS	
	C5211	NCS21HJ-151X	C CAPACITOR	LINE IN	
	C5212	NCB21HK-102X	C CAPACITOR	LINE OUT	
	C5301	QETN1CM-107Z	E CAPACITOR	VCC	
	C5302	QTE1V06-476Z	E CAPACITOR	1/2VCC	
	C5303	QETN1HM-105Z	E CAPACITOR	L/O MUTE.D	
	C5304	NCB21HK-102X	C CAPACITOR	S.W.OUT	
	C5307	NCB21HK-103X	C CAPACITOR		
	C5308	NCB21HK-103X	C CAPACITOR		
	C5309	NCB21HK-103X	C CAPACITOR		
	C5310	QDGB1HK-102Y	C CAPACITOR		
	C6001	QEKC0JM-107Z	E.CAPA I.M	100MF 20% 6.3V	
	C6002	QEK41CM-106	E.CAPA I.M	10MF 20% 16V	
	C6003	NDC21HJ-3R5X	C CAPACITOR	x-f-:TDK	
	C6005	NCS21HJ-331X	C CAPACITOR		
	C6007	NCB21HK-222X	C CAPACITOR		
	C6008	QEKC1HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
	C6009	NCS21HJ-101X	C CAPACITOR		
	C6010	NCB21HK-273X	C CAPACITOR		
	C6011	NCB21HK-222X	C CAPACITOR		
	C6012	NCB21HK-103X	C CAPACITOR		
	C6014	NCB21EK-104X	C CAPACITOR		
	C6015	NCB21HK-223X	C CAPACITOR		
	C6016	NCB21HK-223X	C CAPACITOR		
	C6017	NCB21HK-223X	C CAPACITOR		
	C6018	NCB21HK-222X	C CAPACITOR		
	C6019	NCS21HJ-271X	C CAPACITOR		
	C6020	NCS21HJ-181X	C CAPACITOR		
	C6021	NCS21HJ-821X	C CAPACITOR		
	C6022	QEKC0JM-476Z	E.CAPACITOR	47MF 20% 6.3V	
	C6023	NCB21EK-104X	C CAPACITOR		
	C6028	NCB21EK-473X	C CAPACITOR		
	C6029	QEKC0JM-107Z	E.CAPA I.M	100MF 20% 6.3V	

⚠	Item	Parts number	Parts name	Remaks	Area
	C6031	QEKC1AM-227Z	E.CAPA I.M	220MF 20% 10V	
	C6032	QEKC0JM-107Z	E.CAPA I.M	100MF 20% 6.3V	
	C6033	QEK41CM-106	E.CAPA I.M	10MF 20% 16V	
	C6051	NDC21HJ-120X	C CAPACITOR		
	C6052	NDC21HJ-150X	C CAPACITOR		
	C6053	NCB21HK-223X	C CAPACITOR		
	C6055	NCB21EK-473X	C CAPACITOR		
	C6058	NCS21HJ-6R0X	C CAPACITOR		
	C6061	NCS21HJ-471X	C CAPACITOR		
	C6062	NCB21HK-223X	C CAPACITOR		
	C6063	NCB21HK-223X	C CAPACITOR		
	C6064	NCB21HK-223X	C CAPACITOR		
	C6065	NCB21CK-334X	C CAPACITOR		
	C6071	NCB21HK-222X	C CAPACITOR		
	C6072	NCB21HK-222X	C CAPACITOR		
	C6073	QEKC1AM-227Z	E.CAPA I.M	220MF 20% 10V	
	C6075	NCB21HK-102X	C CAPACITOR		
	C6076	NCB21HK-102X	C CAPACITOR		
	C6083	NCB21HK-223X	C CAPACITOR		
	C6089	NCB21HK-472X	C CAPACITOR		
	C6090	NCB21HK-153X	C CAPACITOR		
	C6091	QENC1HM-105Z	NP E.CAPA I.M	1.0MF 20% 50V	
	C6092	QENC1HM-225Z	NP E.CAPA I.M	2.2MF 20% 50V	
	C6094	NCB21EK-104X	C CAPACITOR		
	C6096	NCS21HJ-391X	C CAPACITOR		
	C6097	NCS21HJ-391X	C CAPACITOR		
	C6098	NCS21HJ-391X	C CAPACITOR		
	C6099	NCS21HJ-391X	C CAPACITOR		
	C6154	NCS21HJ-101X	C CAPACITOR		
	C6156	NCS21HJ-151X	C CAPACITOR		
	C6157	NCS21HJ-151X	C CAPACITOR		
	C6158	NCS21HJ-151X	C CAPACITOR		
	C6159	NCB21EK-104X	C CAPACITOR		
	C7001	NCS21HJ-180X	C CAPACITOR		
	C7002	NCS21HJ-180X	C CAPACITOR		
	C7003	NCS21HJ-390X	C CAPACITOR		
	C7004	NCS21HJ-360X	C CAPACITOR		
	C7005	NCS21HJ-220X	C CAPACITOR		
	C7006	NCS21HJ-200X	C CAPACITOR		
	C7007	NCB21HK-102X	C CAPACITOR		
	C7008	NCB21HK-102X	C CAPACITOR		
	C7009	NCB21HK-103X	C CAPACITOR		
	C7010	QEKC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C7011	NCF21HZ-104X	C CAPACITOR		
	C7012	QEZ0229-479Z	EDL.CAPACITOR	47000MF	
	C7013	QEKC1CM-107Z	E.CAPACITOR	100MF 20% 16V	
	C7014	QFN31HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C7015	NCS21HJ-101X	C CAPACITOR	FOR RDS	
	C7016	NCS21HJ-101X	C CAPACITOR		
	C7018	NCB21HK-103X	C CAPACITOR		
	C7019	QEKC1HM-225Z	E.CAPA I.M	2.2MF 20% 50V	
	C7020	QEKC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V	
	C7021	NCS21HJ-101X	C CAPACITOR	FOR RDS	
	C7022	NCB21HK-103X	C CAPACITOR		
	C7023	QEK41CM-106	E.CAPA I.M	10MF 20% 16V	
	D6031	MTZJ5.6C-T2	ZENER DIODE		
	D6033	1SR35-100A-T5	SI DIODE		
	D6061	1SS355-X	DIODE		
	D7001	1SS133-T2	SI DIODE		
	D7002	1SS133-T2	SI DIODE		
	D7003	1SS133-T2	SI DIODE		
	D7004	1SS133-T2	SI DIODE		
	D7005	1SS133-T2	SI DIODE		
	D7006	1SS133-T2	SI DIODE		

■ Electrical parts list (CD board)

Block No.02

⚠	Item	Parts number	Parts name	Remaks	Area
	D7007	MTZJ5.1C-T2	ZENER DIODE		
	D7008	1SS133-T2	SI DIODE		
	D7009	MTZJ8.2B-T2	DIODE		
	D7010	1SS355-X	DIODE		
	IC501	BD3861FS-X	IC	FUNC/VOL	
	IC601	AN8806SB-W	IC		
	IC602	LA6541-X	IC		
	IC603	MN35510	IC		
	IC701	UPD780024AGKA11	IC(MCU)	****FLASH****	
	IC702	KIA78S06P-T	IC		
	J5301	QNS0047-001	JACK	LINE IN	
	J5302	QNS0047-001	JACK	LINE OUT	
	J5303	QNN0198-001	1PIN PINJ BLACK	S.W. OUT	
	J6001	GP1FA550TZ	OPT TRANSMITTER		
	K5302	QQR0779-001Z	INDUCTOR	DG	
	K6051	QQR0601-001Z	FERRITE BEADS		
	K7001	QQR0601-001Z	FERRITE BEADS		
	L7001	QQL01BK-100Z	INDUCTOR		
	L7002	QQL01BK-100Z	INDUCTOR		
	Q5101	2SD2114K/VW/-X	CHIP TR.C.M	L/O MUTE	
	Q5201	2SD2114K/VW/-X	CHIP TR.C.M	L/O MUTE	
	Q5301	DTA114EKA-X	DIGITAL.TRANSIS	L/O MUTE.D	
	Q5302	2SD2114K/VW/-X	CHIP TR.C.M	S.W.MUTE	
	Q6001	2SA1037AK/R/-X	TRANSISTOR		
	Q6031	2SC2060/QR/-T	TRANSISTOR		
	Q7001	2SC2668/O/-T	TRANSISTOR		
	Q7002	2SC2668/O/-T	TRANSISTOR		
	Q7003	DTA114TKA-X	DIGITAL.TR		
	Q7004	2SC2412K/R/-X	TRANSISTOR		
	Q7006	2SC2412K/R/-X	TRANSISTOR		
	Q7007	DTC114EKA-X	TR		
	Q7008	DTA114EKA-X	DIGITAL.TRANSIS		
	Q7009	2SA1037AK/R/-X	TRANSISTOR		
	Q7010	DTC144EKA-X	TRANSISTOR		
	Q7011	2SA1037AK/R/-X	TRANSISTOR		
	R5101	NRSA02J-223X	MG RESISTOR	LINE IN	
	R5102	NRSA02J-683X	MG RESISTOR	LINE IN	
	R5103	NRSA02J-302X	MG RESISTOR	CD IN	
	R5104	NRSA02J-182X	MG RESISTOR	FUC.OUT	
	R5105	NRSA02J-473X	MG RESISTOR	LINE OUT	
	R5106	NRSA02J-392X	MG RESISTOR	LINE OUT	
	R5107	NRSA02J-102X	MG RESISTOR	LINE OUT	
	R5108	NRSA02J-222X	MG RESISTOR	L/O MUTE	
	R5109	NRSA02J-563X	MG RESISTOR	S.W.OUT	
	R5110	NRSA02J-332X	MG RESISTOR	BASS	
	R5201	NRSA02J-223X	MG RESISTOR	LINE IN	
	R5202	NRSA02J-683X	MG RESISTOR	LINE IN	
	R5203	NRSA02J-302X	MG RESISTOR	CD IN	
	R5204	NRSA02J-182X	MG RESISTOR	FUC.OUT	
	R5205	NRSA02J-473X	MG RESISTOR	LINE OUT	
	R5206	NRSA02J-392X	MG RESISTOR	LINE OUT	
	R5207	NRSA02J-102X	MG RESISTOR	LINE OUT	
	R5208	NRSA02J-222X	MG RESISTOR	L/O MUTE	
	R5209	NRSA02J-563X	MG RESISTOR	S.W.OUT	
	R5210	NRSA02J-332X	MG RESISTOR	BASS	
	R5301	NRSA02J-223X	MG RESISTOR	L/O MUTE D	
	R5302	NRSA02J-222X	MG RESISTOR	S.W.MUTE	
	R5303	NRSA02J-473X	MG RESISTOR	S.W.OUT	
	R5304	NRSA02J-102X	MG RESISTOR	S.W.OUT	
	R5305	NRSA02J-1R5X	MG RESISTOR	VCC	
	R6001	NRSA02J-123X	MG RESISTOR		
	R6002	NRSA02J-225X	MG RESISTOR		
	R6003	NRSA02J-102X	MG RESISTOR		
	R6005	NRSA02J-274X	MG RESISTOR		

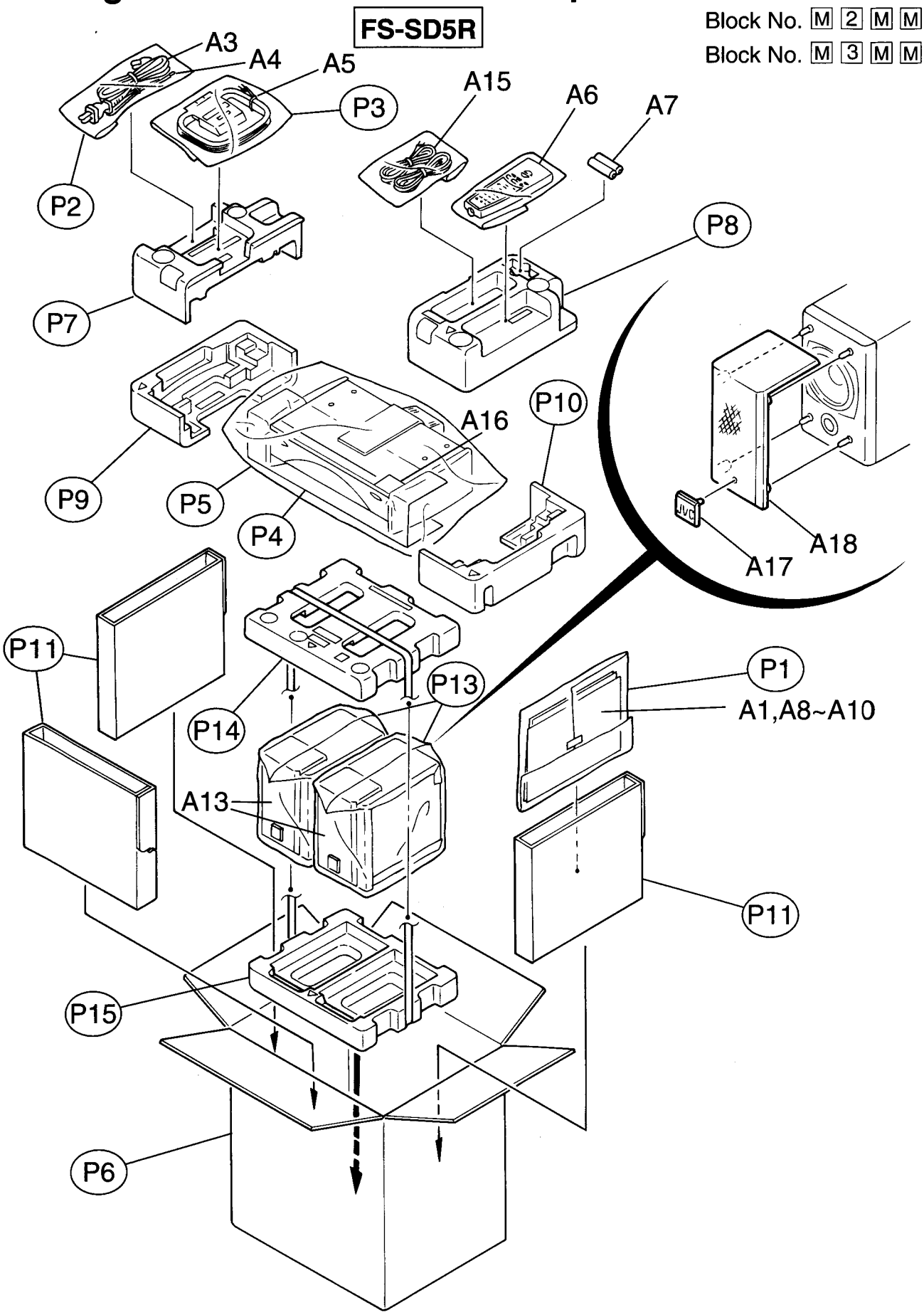
⚠	Item	Parts number	Parts name	Remaks	Area
	R6006	NRSA02J-473X	MG RESISTOR		
	R6007	NRSA02J-273X	MG RESISTOR		
	R6009	NRSA02J-563X	MG RESISTOR		
	R6010	NRSA02J-104X	MG RESISTOR		
	R6012	NRSA02J-103X	MG RESISTOR		
	R6013	NRSA02J-121X	MG RESISTOR		
	R6014	NRSA02J-100X	MG RESISTOR		
	R6015	NRSA02J-120X	MG RESISTOR		
	R6016	NRSA02J-910X	MG RESISTOR		
	R6021	NRSA02J-151X	MG RESISTOR		
	R6022	NRSA02J-151X	MG RESISTOR		
	R6023	NRSA02J-151X	MG RESISTOR		
	R6024	NRSA02J-154X	MG RESISTOR		
	R6025	NRSA02J-154X	MG RESISTOR		
	R6026	NRSA02J-393X	MG RESISTOR		
	R6027	NRSA02J-393X	MG RESISTOR		
	R6028	NRSA02J-393X	MG RESISTOR		
	R6029	NRSA02J-393X	MG RESISTOR		
	R6031	NRSA02J-681X	MG RESISTOR		
	R6032	NRSA02J-681X	MG RESISTOR		
	R6040	NRSA02J-102X	MG RESISTOR		
	R6041	NRSA02J-433X	MG RESISTOR		
	R6042	NRSA02J-472X	MG RESISTOR		
	R6043	NRSA02J-123X	MG RESISTOR		
	R6044	NRSA02J-683X	MG RESISTOR		
	R6045	NRSA02J-433X	MG RESISTOR		
	R6046	NRSA02J-0R0X	MG RESISTOR		
	R6047	NRSA02J-332X	MG RESISTOR		
	R6048	NRSA02J-222X	MG RESISTOR		
	R6049	NRSA02J-152X	MG RESISTOR		
	R6050	NRSA02J-332X	MG RESISTOR		
	R6051	NRSA02J-102X	MG RESISTOR		
	R6052	NRSA02J-102X	MG RESISTOR		
	R6053	NRSA02J-102X	MG RESISTOR		
	R6054	NRSA02J-102X	MG RESISTOR		
	R6056	NRSA02J-0R0X	MG RESISTOR		
	R6057	NRSA02J-0R0X	MG RESISTOR		
	R6058	NRSA02J-0R0X	MG RESISTOR		
	R6059	NRSA02J-471X	MG RESISTOR		
	R6060	NRSA02J-471X	MG RESISTOR		
	R6061	NRSA02J-104X	MG RESISTOR		
	R6063	NRSA02J-124X	MG RESISTOR		
	R6064	NRSA02J-681X	MG RESISTOR		
	R6066	NRSA02J-220X	MG RESISTOR		
	R6067	NRSA02J-0R0X	MG RESISTOR		
	R6068	NRSA02J-0R0X	MG RESISTOR		
	R6069	NRSA02J-155X	MG RESISTOR		
	R6071	NRSA02J-102X	MG RESISTOR		
	R6072	NRSA02J-102X	MG RESISTOR		
	R6080	NRSA02J-0R0X	MG RESISTOR		
	R6081	NRSA02J-0R0X	MG RESISTOR		
	R6082	NRSA02J-392X	MG RESISTOR		
	R6121	NRSA02J-151X	MG RESISTOR		
	R6122	NRSA02J-151X	MG RESISTOR		
	R6123	NRSA02J-151X	MG RESISTOR		
	R7001	NRSA02J-822X	MG RESISTOR		
	R7002	NRSA02J-822X	MG RESISTOR		
	R7003	NRSA02J-103X	MG RESISTOR		
	R7004	NRSA02J-103X	MG RESISTOR		
	R7005	NRSA02J-331X	MG RESISTOR		
	R7006	NRSA02J-222X	MG RESISTOR		
	R7007	NRSA02J-222X	MG RESISTOR		
	R7008	NRSA02J-222X	MG RESISTOR		
	R7009	NRSA02J-222X	MG RESISTOR		

■ **Electrical parts list (CD board)** **Block No.02**

⚠	Item	Parts number	Parts name	Remaks	Area
	R7010	NRSA02J-222X	MG RESISTOR		
	R7011	NRSA02J-222X	MG RESISTOR		
	R7012	NRSA02J-222X	MG RESISTOR		
	R7013	NRSA02J-102X	MG RESISTOR		
	R7014	NRSA02J-103X	MG RESISTOR		
	R7015	NRSA02J-102X	MG RESISTOR	FOR RDS	
	R7016	NRSA02J-222X	MG RESISTOR		
	R7017	NRSA02J-222X	MG RESISTOR		
	R7018	NRSA02J-0R0X	MG RESISTOR		
	R7019	NRSA02J-102X	MG RESISTOR		
	R7020	NRSA02J-222X	MG RESISTOR		
	R7021	NRSA02J-102X	MG RESISTOR		
	R7022	NRSA02J-102X	MG RESISTOR		
	R7023	NRSA02J-102X	MG RESISTOR		
	R7024	NRSA02J-102X	MG RESISTOR		
	R7025	NRSA02J-102X	MG RESISTOR		
	R7026	NRSA02J-102X	MG RESISTOR		
	R7027	NRSA02J-102X	MG RESISTOR		
	R7028	NRSA02J-222X	MG RESISTOR		
	R7029	NRSA02J-103X	MG RESISTOR		
	R7030	NRSA02J-222X	MG RESISTOR		
	R7031	NRSA02J-103X	MG RESISTOR		
	R7032	NRSA02J-222X	MG RESISTOR		
	R7033	NRSA02J-103X	MG RESISTOR		
	R7034	NRSA02J-222X	MG RESISTOR		
	R7035	NRSA02J-103X	MG RESISTOR		
	R7036	NRSA02J-222X	MG RESISTOR		
	R7037	NRSA02J-222X	MG RESISTOR		
	R7038	NRSA02J-103X	MG RESISTOR	VERSION	
	R7040	NRSA02J-102X	MG RESISTOR		
	R7041	NRSA02J-103X	MG RESISTOR		
	R7042	NRSA02J-103X	MG RESISTOR		
	R7043	NRSA02J-103X	MG RESISTOR		
	R7044	NRSA02J-103X	MG RESISTOR		
	R7045	NRSA02J-222X	MG RESISTOR		
	R7046	NRSA02J-222X	MG RESISTOR		
	R7047	NRSA02J-102X	MG RESISTOR	FOR RDS	
	R7048	NRSA02J-102X	MG RESISTOR		
	R7049	NRSA02J-102X	MG RESISTOR		
	R7050	NRSA02J-104X	MG RESISTOR		
	R7051	NRSA02J-473X	MG RESISTOR		
	R7052	NRSA02J-333X	MG RESISTOR		
	R7053	NRSA02J-222X	MG RESISTOR		
	R7054	NRSA02J-222X	MG RESISTOR		
	R7055	NRSA02J-222X	MG RESISTOR		
	R7056	NRSA02J-103X	MG RESISTOR		
	R7057	NRSA02J-103X	MG RESISTOR		
	R7058	NRSA02J-103X	MG RESISTOR		
	R7059	NRSA02J-103X	MG RESISTOR		
	R7060	NRSA02J-103X	MG RESISTOR		
	R7061	NRSA02J-103X	MG RESISTOR		
	R7062	NRSA02J-222X	MG RESISTOR		
	R7063	NRSA02J-222X	MG RESISTOR		
	R7064	NRSA02J-471X	MG RESISTOR		
	R7065	NRSA02J-222X	MG RESISTOR		
	R7066	NRSA02J-222X	MG RESISTOR		
	R7067	NRSA02J-222X	MG RESISTOR		
	R7068	NRSA02J-222X	MG RESISTOR		
	R7069	NRSA02J-222X	MG RESISTOR		
	R7070	NRSA02J-102X	MG RESISTOR		
	R7071	NRSA02J-102X	MG RESISTOR		
	R7072	NRSA02J-222X	MG RESISTOR		
	R7073	NRSA02J-102X	MG RESISTOR		
	R7074	NRSA02J-103X	MG RESISTOR		
	R7075	NRSA02J-103X	MG RESISTOR		
	R7076	NRSA02J-103X	MG RESISTOR		
	R7077	NRSA02J-103X	MG RESISTOR		
	R7078	NRSA02J-103X	MG RESISTOR		
	R7079	NRSA02J-512X	MG RESISTOR		
	SP603	VYH7653-001	IC HOLDER	IC603 IC-HOLDER	
	SP701	VYH7653-002	IC HOLDER		
	S8021	QSW0851-001	DETECT SWITCH		
	S8022	QSW0851-001	DETECT SWITCH		
	TH701	QAD0015-103Z	THERMISTOR		
	WR 1	QUB220-07HPDM	SIN TWIST WIRE		
	W1801	QJK021-021502	SIN CR C-B WIRE		
	W3001	QJK002-061201	SIN CR C-B WIRE		
	W3002	QJK019-040704	SIN CR C-B WIRE		
⚠	W3901	QJK019-072002	SIN CR C-B WIRE		
	W5001	QJK018-110501	SIN CR C-B WIRE		
	W8001	QJK018-020502	SIN CR C-B WIRE		
	W8002	QJK018-040504	SIN CR C-B WIRE		
	W8003	QJK018-021202	SIN CR C-B WIRE		
	W8004	QJK018-030503	SIN CR C-B WIRE		
	W8005	QJK018-020502	SIN CR C-B WIRE		
	X6051	QAX0413-001Z	CRYSTAL		
	X7001	QAX0401-001	CRYSTAL		
	X7002	QAX0410-001	CERA LOCK		

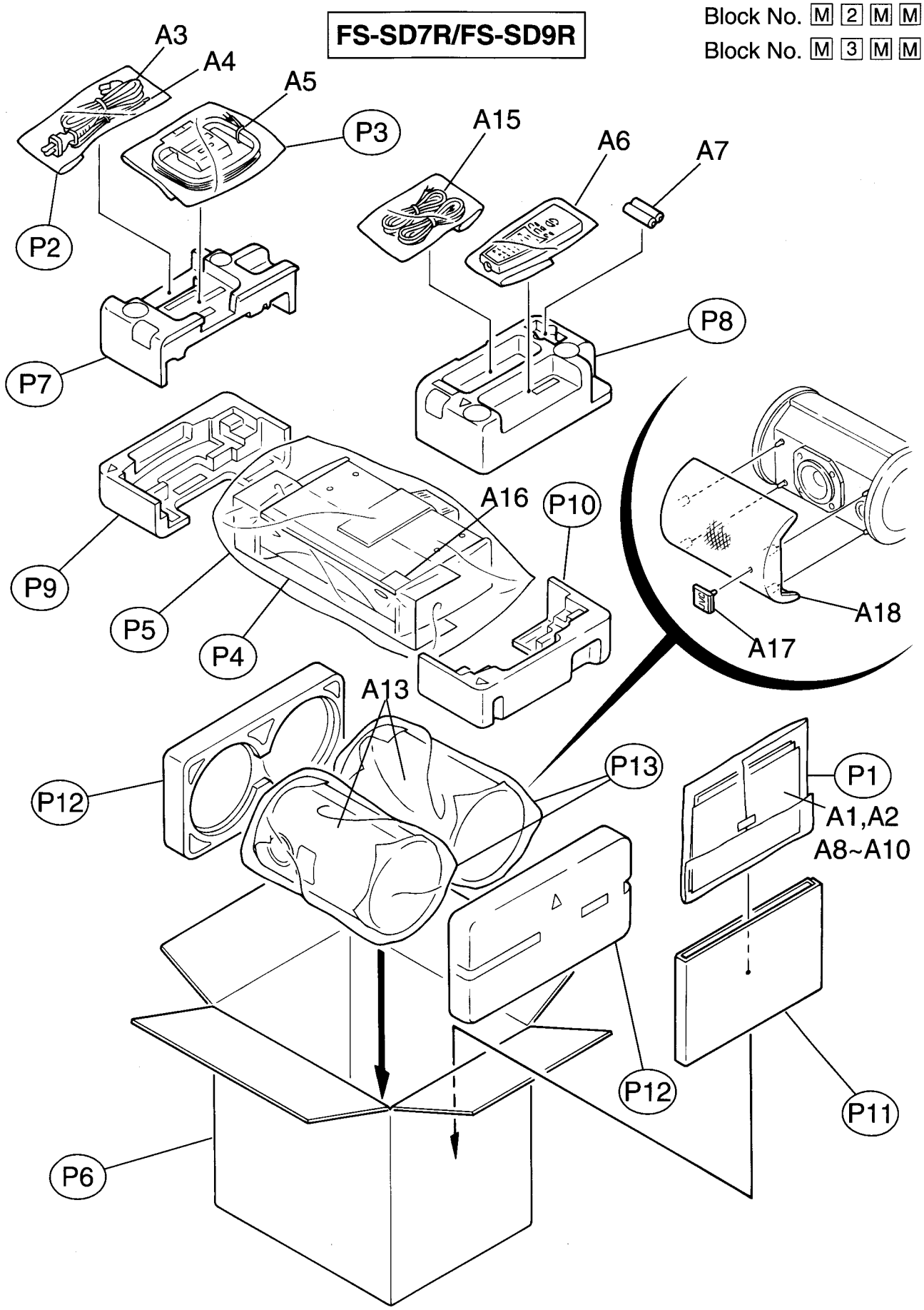
Packing materials and accessories parts list

Block No. M 2 M M
Block No. M 3 M M



Packing materials and accessories parts list

Block No. M 2 M M
Block No. M 3 M M



■ Packing parts list

Block No. M2MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	QPA02503503P	POLY BAG	1	FOR INST	
	P 2	QPA01503503	POLY BAG	1	FOR P.CORD	
	P 3	QPA01702503P	POLY BAG	1	FOR AM ANT	
	P 4	VPK3001-012	SHEET	1		
	P 5	QPC04504515P	POLY BAG	1	FOR SET	
	P 6	LV31707-003A	PACKING CASE	1	FS-SD5R	
		LV32008-003A	PACKING CASE	1	FS-SD7R	
		LV32008-007A	PACKING CASE	1	FS-SD9R	
	P 7	LV20760-001A	CUSHION TOP(L)	1	TOP (L)	
	P 8	LV20760-002A	CUSHION TOP(R)	1	TOP (R)	
	P 9	LV20761-001A	CUSHION BTM (L)	1	BOTTOM (L)	
	P 10	LV20761-002A	CUSHION BTM (R)	1	BOTTOM (R)	
	P 11	LV31789-001A	CARTON SPACER	3	FS-SD5R	
		LV32009-001A	CARTON SPACER	1	FS-SD7R/SD9R	
	P 12	SD7-KF-00-01	CUSHION	2	FS-SD7R/SD9R	
	P 13	SD7-KO-01-01	POLY BAG	1	FS-SD7R/SD9R	
		SD5-KO-00-01	POLY BAG	1	FS-SD5R	
	P 14	SD5-KF-01-01	CUSHION(TOP)	1	FS-SD5R	
	P 15	SD5-KF-02-01	CUSHION(BOTTOM)	1	FS-SD5R	

■ Accessories list

Block No. M3MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	LVT0418-003A	INST.BOOK	1	FS-SD5R/SD7R/SD	E
		LVT0418-003A	INST.BOOK	1	FS-SD9R	EN
		LVT0418-004A	INST.BOOK	1	FS-SD5R/SD7R	EN
		LVT0418-002A	INST BOOK	1	FS-SD9R	
	A 2	LV41811-001A	FOOT ASSY	1	FS-SD7R/SD9R	
⚠	A 3	QMPL080-183-JC	POWER CORD	1	FS-SD5R/SD7R/SD	
⚠		QMPP060-183-JD	POWER CORD	1	FS-SD9R	UB
⚠		QMP5520-183E	POWER CORD	1	FS-SD5R/SD7R/SD	B
	A 4	EWP503-001C	ANT.WIRE	1	FM ANT	
	A 5	QAL0014-001	AM LOOP ANT	1	AM ANT	
	A 6	RM-SFSSD9R	REMOCON UNIT	1	FS-SD9R	
		RM-SFSSD7R	W.LESS REMOCON	1	FS-SD5R/SD7R	
	A 7	R6SPTT/2STA	BATTERY	2	FOR REMOCON	
	A 8	BT-54008-2	WARRANTY CARD	1		
	A 9	VNA3000-202	REGISTER CARD	1		B
	A 10	LV30258-071A	UB SHEET	1		UB
	A 13	FSSD5J-SPBOX	SPEAKER BOX	2	FS-SD5R	
		FSSD7J-SPBOX	SPEAKER BOX	2	FS-SD7J	
		FSSD9J-SPBOX	SPEAKER BOX	2	FS-SD9J	
	A 15	QAM0285-001	SPK.CORD(2PCS)	1	SPEAKER CORD OF	
	A 16	LV41819-001A	CD CAUTION	1		
	A 17	SD7-SJ-01-01	MARK	2	FS-SD7R/SD9R	
		SD5-SJ-01-01	MARK	2	FS-SD5R	
	A 18	SD7-BK-00-01	SPEAKER NET	2	FS-SD7R/SD9R	
		SD5-BK-00-01	SPEAKER NET	2	FS-SD5R	

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(No.20829)

Printed in
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